

by Muhsin Qara'ati

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 \dot{U} àb 8c \dot{Q} \dot{a} \dot{c} A Commentary on Prayer Vãd^ $V_{a} \bullet [\tilde{a}c^{+}] = \tilde{a}c^{+} = \tilde{a}c^$ <u>Ú`à|ã@¦qÁØ[¦^, [¦å</u> Ø[|^. [|å Chapter 1 Y [¦• @ A. Á. Ba æ æ æ æ A. <u>Ù^¦çãč å^Á́± à` å∠æ@</u># ËY @@@A\$A Á [|• @2] Á == a a a a a @ Ë⊃æč¦ækÁåãa][●ãããi}Á,~ãdæ@a æ) å Á [¦• @] Á 🛱 æ æ æ Ë/@ÁÜ[[cÁ ÁY [¦• @] <u>Ë/@Á¦[~}åãĉÁÁÁ[¦•@</u> ËQaã-~~¦~} &^Á(, æaaÁ • @ Ë/@Á |^æ`¦^Á ÁÕ[åÁæ Á c@ 羢ã Á Á [¦•@] Ë/@A)ããAAA [¦•@a] ËT [å^¦æeā]} Á § Á [¦• @] Ë æ}æ*^{ ^}oÁ§Á [¦•@] ËY [¦•@4] Áse• ÁsaÁGI Ë@[`¦Á] @##{ 266&^ ËY [¦• @] Áse Ás@ Á [` ¦ &^ Á 4 dæ)ĭĭãããĉ ËY [¦• @2], Áse); å Áse&ĭ ँã; ãa ãa [}• Ë/@Á^&a] | [&æ¢Á~~^ &œ Á Á ~2000 å å Å [!• @ Ë/@A@1[•[]@A~A[¦•@1 æ&&[\åã * Á{ Á@ ÁÛ ~ \œe} ËÚ¦æ^\Á§Á@Á[¦å•Á́Á

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A Commentary on Prayer

by Muhsin Qara'ati

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Q at fiadad Ë/@Á~^&œÁæ}åÁa|^••ã*•, [-Á•^¦çãč å^Áæ) åÁ čà{ã∙ã[FÈÁÙ^} • ^ Á Á@ } [¦ Áæ) åÁ **^**● **C^^**{ $GHAU^{+} \bullet^{A}A + d^{+} \circ COO$ $HEAU^{+} \bullet^{A} Aa a a \ a c$ IEÄV¦æaãjãi*Áse≛^}c Í ĎÁÙĭ { { [}ãj*Á`]Á+]ããa•Â Î ÊZŐ ĭ ælalãaa) • @21, Á, ãjæê æ @30Á [c^**Á&**\^æeaaaaaaaa}Â Ë/@Áçãæ*^Á;A;¦æ^; ËÚ¦æ^¦Áæ)åÁs@ÁÛč¦œe) ËÚ¦æî^¦Áæ)åÁíãaæÂ ËY[¦•@2] Áse) å Á*čæ a åãæ) •@2] ËÚ¦æ^\Áæ)åÁ^æå^¦•@] Ë/@^Á&^*¦^^•Á~Á [¦•@] Ë/@Á\$ãæ*^Á.-Á.[¦•@] ËÚ¦æ^\•Áx@æA^|ð\c^Á åã-ãk (c Ë/@A,¦æ^¦A,ARæææ¢A æË/æ^æ ËV@ Á æ) & cãc Á - Á ¦æ^ ¦ Ë/@ÁW}ãc^¦•æjãĉÁ;ÁÚ¦æ^^¦ Chapter 2 (\mathbf{Q}_{c}) (\mathbf{a}_{i}) $\ddot{\mathbf{E}}$) $\ddot{\mathbf{a}}$ $\mathbf{\delta}^{\mathbf{h}}$ $\mathbf{\delta}_{\mathbf{Q}}$ $\mathbf{c}^{\mathbf{h}}$ $\mathbf{c}_{\mathbf{a}}$ $\mathbf{c}_{\mathbf{a}}$ Ë/@A [các^A [kA^^\ ā * A }^æ}}^••Á~~`¦à¤Á\$ ÁOE[æ@ Ë/@\Á&^*¦^^•Á\-{[¢ãi ãc`Á ĭ ¦à¤ ËY ^Á@æç ^Ág Ág ç^ÁÕ[åÁg ¦Á $c@\dot{A}aa^{\dot{A}}$ $\overrightarrow{\text{EDEcceed}}$ { ^} $\overrightarrow{\text{A}}$ $\overrightarrow{\text{Ac}}$ $\overrightarrow{\text{Ac}}$]¦[¢ãī ãc Á˘˘¦à¤ ËCEAU^&[||^&cat } ËÛ čælaãčÁn, ¦Á čæ), caãčÑ Ë0EÁÜ^&[||^&cat]} ËCE; [c@+¦Á^&[||^&cā] } Ë/@^Á54_c^}ca1i}Á*ãç^●Áçæej*^Á d Ác@ Áå^^å $\ddot{\mathsf{E}}$ / [Á@á d] | $\ddot{\mathsf{a}}$ $\ddot{\mathsf{a}}$ $\dot{\mathsf{a}}$ \dot EOEA^&[||^&cat] Ë/@Á~~^&œÁæ)åÁa|^••ã*•, [~ÁscÁ,č¦^Áš,c^}cã;} Ë/@A.¦^^{ ā ^} &^A Á

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 $\hat{a}_{i} \circ \hat{a}_{i} \hat{A}_{i} \circ \hat{A}_{i} \hat{A}_{$ Ë/@\Á\$a^*¦^^•Á\-Á\$jc^}cāj} ËV@^Á[|^Á;~Á§;c^}cā;}Á;}Á (@^Á\^} æk/ *** • * ^• ËÕ}[•ã Áœ Áœ Á ¦^|ã] ã æ^́, • c^] Ág , æ¦å Ás@ Ásg c^ } caj } Á -{ ¦Á^æ} ^•• Ë/@Á~~8@Á 48[!!`] A $\overline{a} c^{\circ} \overline{c} \overline{a}$ Chapter 3 Væ à å æ æ ËCEIæ@ Áze àz ÁCEIæ@Áz Á * |^2220^ | ¤ Ë/æ}àãÁ§iÁic@\¦Á,¦æ^^¦∙ ËP[, Á, ^Á, @] ` |åÁ^&ãc^Ás@ / cæààãçiÁ¦æ^¦ Ë/@~Á\^æ)ā]*Á\-Áæèààã Ë/æ) àã Á§ Á@ læ í æÁ& lč l^ Chapter 4 Ú[×]¦æØÅ Ë/@^Á§s•d`&cãc^Á{^••[}•Á;~ Ù`¦æ@ÁstelËØææã@æ@ ËÕã {ã | æ@ãi Ëæ@; æ) ãi Ëæ@ EDã { ã æ@ Ë/@A [¦åÁQE]æ@-ËQTË@zef å` |ã|æ@-Ëluizaa) a Áseb Esetetasi al +Á ËQEËæ@; 23) ãdËæ@a + Ë756 ætaããÁ æ {ãota Ëãã + <u>Ë/@Á0Eæàã&Á [¦åÁ⁄ååā]+</u> ËQ & a A a a A a a A a a a } æ cæði +Á ËQQA ja zer Ëlja zerÁ O⊞Ë ĭ∙cæĭãi+ \dot{E} (38. (34.) \dot{A} (30.) \dot{A} (30.) Úæ@ ËAJāæÁæjæå@3 æÁæ) ±æ(æÁ ±ete ≊í@ã Á* @eê¦ãotË; ze* @a`àá ±ete 🖓 Á ælázá Éazel a +Á ËY @ Áse ^ Ás @ • ^ Á @ Áse ^ Á æ dæî Áæ) å Á@æç^Á§i &ĭ ¦¦^åÁ c@\Á\$aãcā_^Á ¦æc@Ñ

Chapter 5

Ë/@^Á\$[][¦œa}&^Á[~ÁÛ`¦æ@Á ËLÛ (Á@) æd æ@ Áæ@æå +Á , Ùæ Ê $\Delta P \wedge A$ A A = A = A + AË/QEIæ@ qrËæ; æå+Á \ddot{E} $\dot{\Delta}$ $\dot{\Delta}$ ˉ æ4xæ4 Áæ4`}Áæe@Á \ *` ~` , æ*} Áæ@æå+ Chapter 6 <u>Ó[, ậ, * ÁÖ[, } Á¦`∖`±aÁæ)</u> å Á Ú¦[•dæaā]}Á•ĭbǎ¤ ËŐ[, ã] * Á‰[, } Á¦ĭ \ ĭ ±¤ Ë/@Á~&@ÁÁ`\`± Ë/@A^cã`^cc^A/AA]^¦-{ |{ ā * Á `` ` ± Õ[å Ë/@Á@ãd[¦^Á;Á*Ďå ËV@Á\$[][¦œa)}&^Á[·Á*ĭbĭå Ë/@A,ãaå[{Áa^@a,åA`b`å Ë/@A^cã`^cc^A/AA]^¦{|{ ā * Á ĭ b å Ë/@Á[ã/Á ÁSælàælæg ËÚ¦[•dæaā}}Ái -Ás@æa}∖•Á ,•`ĎåÁ@\¦¤ <u>Ë/@Áa|^••ā;*•Á;Á*`b`åÁ</u> • @ \ | Ë/@Á¦[•dæaā]}•Á, Áo@Á • 22 • A 4Õ[å ËU[{ ^Á[ão Chapter 7 Ö@ã¦ÁæeË/æeàã@ ËNU à @ AOE æ@A Ë/@\Á^, æ¦åÁ{¦Áæeàã@ ËÚ¦æ&ca&ækæàã@ \mathbb{H}^{1} (\tilde{a} <u>ËÜ^{ ^{ à a 3 & Á Á</u> ÁÕ[å Á§ Á Ë/@Ázzeàã@A Á c@¦Á &\^æ`\^•

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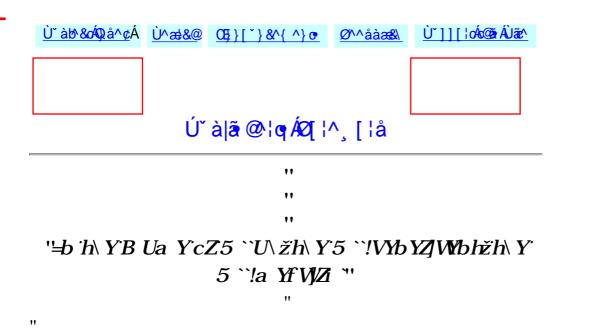
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Kť j cu'i kxgp'o cp{'uej qrctu'\q''j g'O wurko "wo o cj 'y j q." hqmqy kpi 'kp''j g'hqquvgr u''qh'Ko o u''qh''j g''Rtqr j gvau''J qwugj qrf " * \div +."j cxg'f qpg''j gkt''dguv'\q''engct''wr ''y g''f qwdw''tckugf ''d{" xctkqwu''etggf u''cpf ''ewttgpwi'y kj kp''cpf ''y kj qw''O wurko ''uqekgv{" cpf ''q''cpuy gt''j gkt''s wguvkqpu0'Vj tqwi j qw''y g''r cuv''egpwtkgu." y g{''j cxg''i kxgp''y gm'tgcuqpgf ''cpuy gtu''cpf ''enctkhecvkqpu'' eqpegtpkpi ''y gug''s wguvkqpu''cpf ''f qwdw0

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Vj g"cti wo gpw"eqpvckpgf "kp"vj g"y qtmu"qh"vj g"uej qnctu" dgnqpi kpi "vq"vj g"Uej qqn"qh"vj g"*Cj n"cn/Dc { v*"* $\div c$ +"ctg"qh"wpks wg" uki pkhlecpeg0"Vj cv"ku"dgecwug"vj g{ "ctg"dcugf "qp"i gpwkpg" uej qrctuj kr "cpf "cr r gcnlvq"tgcuqp."cpf "cxqkf "r tglwf keg"cpf "dkcu0" Vj gug"cti wo gpw"cff tguu"uej qrctu"cpf "vj kprgtu"kp"c"o cppgt" vj cv"cr r gcnu"vq"j gcnj { "o kpf u"cpf "y j qrguqo g"j wo cp"pcwtg0

Vq'cuukuv'y g'uggngtu''qh''twj .''y g'Cj n'cn'Dc {v'Y qtnf 'Cuugo dn{ " j cu''gpf gcxqtgf ''q''r tgugpv'c''pgy ''r j cug''qh''y gug''cti wo gpvu" eqpvckpgf ''kp''y g''uwwf kgu''cpf ''tcpuncvkqpu''qh''y g''y qtmu''qh'' eqpvgo r qtct { ''Uj \rightarrow cj ''y tkgtu''cpf ''y qug''y j q''j cxg''go dtcegf ''y ku'' uwdnko g''uej qqn''qh''y qwi j v''y tqwi j ''f kxkpg''dnguukpi 0 "

Vj g'Cuugo dn{ 'ku'cnıq 'gpi ci gf 'kp''gf kkqp''cpf 'r wdrkecvkqp''qh''j g'' xcnwcdrg''y qtmu''qh'hgcf kpi 'Uj \div cj 'uej qrctu''qh''gctrlgt''ci gu''q'' cuukuv''y g''uggngtu''qh''y g''twj 'kp''f kueqxgtkpi ''y g''twj u'y j kej '' y g''Uej qqn''qh''y g''Rtqr j gvøu''J qwugj qrf ''* \div +'j cu''qhhgtgf ''q''y g'' gpvktg''y qtrf 0

Vj g'Cj n'cn'Dc{v'Y qtnf 'Cuugo dn{ 'mqmu'hqty ctf 'vq'dgpghk/' htqo 'vj g''qr kpkqpu''qh''yj g'tgcf gtu''cpf 'vj gkt''uwi i guvkqpu''cpf '' eqpuvtwevkxg''etkkekuo 'kp''yj ku''ctgc0

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Y g''cnıq'kpxkg''uej qıctu. ''tcpurcvqtu''cpf ''qyj gt''kpuvkwvkqpu''vq''
cuukuv'wu''kp''r tqr ci cvkpi ''yj g''i gpvkpg''Kırco ke''vgcej kpi u''cu''
r tgcej gf ''d{ ''yj g''Rtqr j gv'O wj co o cf '*U+0
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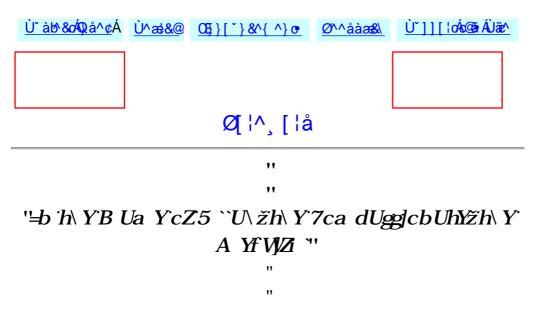
Y g'dguggej 'I qf.'ý g'O quv'J ki j.'vq''ceegr v'qwt'j wo dng''ghhqt'u'' cpf 'vq''gpcdng''wu''vq''gpj cpeg''ý go ''wpf gt''ý g''cwur kegu''qh''Ko o '' cn'O cj f.'J ku''xkegi gtgpv''qp''ý g''gctyj ''*o c{''Cncj ''gzr gf kg''j ku'' cf xgpv+0 ''

Y g"gzr tguu"qwt"i tcvkwf g"vq" wllcv"cn Kurco "y cøn O wurko kp" Uj c { nj 'O w ukp'S ctcøcvk "yj g"cwj qt"qh'yj g"r tgugpv"dqqm"cpf " O cpuqqt "Nko dc."kwi"vtcpurcvqt0'Y g"cnuq"yj cpm"qwt"eqnrgci wgu" y j q"j cxg"r ctvkekr cvgf "kp"r tqf wekpi "yj ku"y qtm"gur gekcm{ "yj g" uvchh"qh"yj g"Vtcpurcvkqp"Qhhkeg0'

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EwnwtcnChhchtu'Fgrctvo gpv CjncnDc{v'*÷c+'Y qtnf 'Cuugo dn{

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Vj g'Ewnwtch'Egpvgt"qh'S wtøcpke"Nguuqpu'y cu"guvcdnkuj gf "kp" 3597'CJ U'*3; ; 8+'y kj 'y g'cko "qh'eqo r krkpi .'cttcpi kpi "cpf" r wdrkuj kpi 'y g'y tkwgp."cwf kq"cpf 'xkuwch'y qtmu'qh'' wllcv' cn'Kurco "Uj c{mj 'O w ukp'S ctcøcvk0

F wtkpi ''y g''o cp{ ''{gctu''qh''ku''cevkxkv{.''cr ctv'htqo ''r wdrkuj kpi '' pgy ''dqqmu''d{ ''y g''cwj qt.''y g''*Vchukt/g''P wt* ''}Eqo o gpvct{ ''qh'' Nki j v_j ''kp''r ctvkewrct.''y ku''kpuvkwwg''j cu''cnuq''r tgugpvgf ''c''dqqm''kp'' ku''gf kvgf ''xgtukqp.''y j kej ''j cf ''dggp''r wdrkuj gf ''d{ ''qvj gt'' r wdrkuj gtu0'

Co qpi ''y g''y qtmu''qh''y g''y tkgt ''qp''y g''uwdlgev''qh'r tc{gt''ku''y g'' dqqm''*Vchikt/g'Pcoc/*''}C'Eqo o gpvct{''qp''Rtc{gt;.''y j kej ''y cu'' kpkkcm{ ''r wdrkuj gf ''d{ ''y g''Rgthqto cpeg''qh''Rtc{gt''J gcfs wctvgtu0' Rwtuwcpv''q''y g''xkgy ''qh''y g''j qpqtcdrg''qhhkekcnu''cv''y g'' J gcfs wctvgtu.''uwdugs wgpv''gf kkqpu''qh''y g''uckf ''dqqm'y gtg'' uwr r qugf ''q''dg''r wdrkuj gf ''d{ ''y g''Ewnwtcrl'Egpvgt''qh''S wtøcpke'' Nguuqpu0

KV ku'pgeguuct { ''q''pqvg''y cv'y ku'dqqnij cu'dggp''gf kgf ''cpf ''gctrlgt'' v{r qi tcr j kecn'gttqtu'j cxg''dggp''eqttgevgf ''cu'hct''cu'r quukdrg0' P gxgtyj grguu. ''y g''rqqnihqty ctf ''q''tgegkxkpi ''y g''xlgy u''cpf '' uwi i guvlqpu''qh''qwt'f gct''tgcf gtu''y j q''y g''kpxkg''q''eqo o wpkecvg'' y kj ''wu''cv''y ku''cff tguu<

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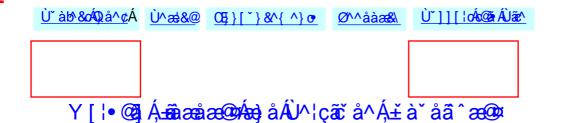
Ky cu'i ncf ''vq''dg''r tgugpv''cv''y g''j qn{ ''uj tkpg''qh''Ko co ''ct/Tkf c''* \div cpf ''vq''j cxg''uvctvgf ''y tkkpi ''y ku''dqqmgv.''y g''f tchwi''qh'y j kej ''K' j cf ''r tgr ctgf ''gctnkgt.''r tkqt ''vq''y g''dgi kppkpi ''qh'y g''*Ktcpkcp+'' P gy ''[gct''3596''CJ U'*y j kej ''eqo o gpegf ''qp''O ctej ''43.''3; ; 7+0 ''

Dghqtg"go dctmlpi "qp"y g"uwdlgev'r tqr gt. "gv'wu'hltuv'vcng"c" ewtuqt { 'i ncpeg"cv'õY qtuj kr "}+dcf cj; "cpf "Ugtxkwf g" } $+wdwf k\{ \{ cj ; ö'y j kej "ku'y g"uqwn'qh'r tc \{ gt "cu'y gm'cu''cm'qy gt "f gxqvkqpcn'f wkgu''uq "cu''q''dgwgt "kpvgtpcnkt g"ku''uwdnko g''uvcvkqp" kp"qwt "hxguO'$

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 \tilde{o} Kf kf 'pqv'et gc vg''y g'lkpp 'cpf 'j wo cpu'gz egr v''y cv''y g{ 'b c{'' y qt uj kr 'O g(b']3_

Ki'ý g'y qtm'y g''ctg'f qkpi 'ku'hqt''ý g''ucng''qh''uggnkpi ''ý g''r ngcuwtg'' qh'I qf.''ý gp''kv'ku''cp''cev''qh'y qtuj kr0'Kv'ku''uq''gxgp''ý qwi j ''kv'o c{ '' dg''c''dwukpguu''qt''r tqhguukqpcn'xgpwtg.''ý g''r wtuwkv''qh'' mpqy ngf i g.''o cttkci g.''ugtxkeg''vq''r gqr ng.''qt''cp{ y kpi ''ý cv'ku'' o gcpv''vq''o ggv''qwt''pggf u''qt''y cv'qh''uqekgv{0

Vj cv'y j kej 'o cngu''cp''cevkqp''cp''cev''qh''y qtuj kr ''} +dcf cj; 'ku''y g'' ucetgf 'o qvkxgu''dgj kpf ''kvu''r gthqto cpeg''cpf ''kp''y g''r ctncpeg''qh'' y g''S wtøcp. ''kv'j cu''y g''õf kxkpg''dcr vkuo ö''} kdi j cv'Cncj; 04_{-} '''

P cvwt cnf kur qukskqp'}hkst cj;'cpf 'y qt uj kr'}-kd cf cj;

Uqo g''qh''qwt ''cevkqpu''qt ''cevkxkkgu''ctg''dcugf ''qp''y qtuj kr '' }*Hdcf cj* ; ''y j krg''qy gtu''ctg''cpej qtgf ''kp''pcwtcn''f kur qukkqp'' }*hkt cj* ; 0'C 'j cdkv''ecp''dg''o gtkqtkqwu''uwej ''cu''ur qtvu''qt ''pqv'' o gtkqtkqwu''uwej ''cu''uo qmkpi 0'Dwy'kh''cp''cevkqp''y cu''cpej qtgf ''kp'' pcwtcn''f kur qukkqpô yj cv'ku. ''kh''kv'y cu''f qpg''dcugf ''qp''y g''pcwtcn'' f kur qukkqp''cpf ''r wtg''o qnf ''y j kej ''I qf ''j cu''dguvqy gf ''qp''y g'' eqpuvkwwkqp''qh''gxgt { ''j wo cp''dgkpi ô y gp''kv'y qwrf ''cny c { u''dg'' o gtkqtkqwu0 Vj g"o gtki'qh"pcwtcn"f kur qukkqp"eqo r ctgf "vq"y qtuj kr "ku"yj cv" vko g"cpf "r meg."i gpf gt"cpf "tceg."cpf "ci g"cpf "eqpf kkqp"j cxg"pq" ghgev"qp"kx."cpf "gxgt { "j wo cp"dgkpi ."qp"ceeqwpv"qh"j ku"dgkpi "c" j wo cp."r quuguugu"k0Cp"gzco r mg"qh"yj ku"ku"yj g"chhgevkqp"i kxgp" vq"qpgøu"ej kff "yj cv"ku"pqv"tvg"qpn{ "vq"c"r ctvkewrct "i gpgtcvkqp" cpf "r gtkqf "tcy gt."kv"ku"eqo o qp"hqt"gxgt { "r ctgpv"vq"f q"uqQ5_" Kuuwgu"uwej "cu"hqto "cpf "uv{ mg"qh"f tguu"qt "hqqf "ctg"i qxgtpgf "d { " j cdkv"cpf "yj g{ "xct { "kp"f khgtgpv"vko gu"cpf "r megu0"kp"uqo g" tgi kqpu. "c"egtvckp"yj kpi "ku"c"ewuvqo "y j krg"yj g"uco g"ku"pqv" tgi ctf gf "cu"uwej "kp"qyj gt"r megu0

"

Y qtuj kr "cpf "f gxqvkqp"ctg"cnuq"co qpi "y qug"cevkqpu'y cv'r gtvckp" vq"y g"pcwtcn'f kur qukkqp"qh"o cp. "cpf "y wu."y g"o quv'cpekgpv." dgcwkhwn'cpf "f wtcdng"dwkrf kpi u"eqpuvtwevgf "d{ "o cp"ctg"tgncvgf " vq"y qtuj kr "uwej "cu"vgo r ngu."ej wtej gu."o qus wgu."cpf " hktg/vgo r ngu0'

Qh'eqwtug. 'o cp{ 'f khgtgpegu'ecp''dg''uggp''y kj 'tgur gev'vq'hqto u'' cpf ''v{r gu''qh'f gxqvkqp0'Qpg''f khgtgpeg''r gtvckpu''vq''j g''qdlgevu''qh'' y qtuj kr ''gzvgpf kpi 'htqo ''uvqpg. ''y qqf ''cpf ''kf qnu'vq''j g''Dgnqxgf '' Nqtf. ''cpf ''cpqy gt 'f khgtgpeg''ku''kp''j g''hqto ''cpf ''uv{ rg''qh'' y qtuj kr .''y j kej ''xctkgu''htqo ''f cpekpi ''cpf ''ukpi kpi ''vq''j g''o quv'' r tqhqwpf ''cpf ''uvdvg''rkscpkgu''}*o wpclcv*''qh''j g''cy *rk{c\$\otherworldystructuryst*

Vj g"qdlgevkxg"qh'ý g"r tqr j gvu'*÷x+'j cu'pqv'dggp"vq"etgcvg"ý g" ur ktk/qh'f gxqvkqp"kp"o cp"dw'tcy gt"vq"tghqto "y qtuj kr "kp"vgto u" qh'ksu"qdlgev'cpf 'hqto 0'

Vj g''ncti g''uwo u''qh''o qpg{ ''ur gpv''qp''y g''eqpuvt wevkqp''qh'' ej wtej gu. ''u{ pci qi wgu. 'J kpf w''vgo r ngu. ''cpf ''o qus wgu='' eqpukf gtkpi ''cu''ucetgf ''y g''pcvkqpcn'hrci u''cpf ''j gtqgu=''cpf '' r tckukpi ''y g''gzegngpegu''cpf ''xcnwgu''qh''kpf kxkf wcnu''cpf ''gxgp'' qdlgevu''ctg''cm'o cpkhguvcvkqpu''qh''y g''ur ktkv''qh''f gxqvkqp''y j kej '' gzkuvu''kp''o cp0

Gxgp''y qug'y j q'f q''pqv'y qtuj kr ''I qf ''y qtuj kr ''y gkt''ur qwugu." ej kf tgp. ''etgf gpvkcnu. ''kf gqmi {.''etggf .''qt''r cy ''cpf ''y g{ ''ctg'' tgcf { ''vq''o qxg'hqty ctf ''cmpi ''y ku''y c{ ''gxgp''vq''y g''gzvgpv''qh'' ucetkhkekpi ''y go ugnxgu0'Y qtuj kr 'j cu''c'f ggr ''pcwtcn'tqqv'kp''o cp'' cnj qwi j 'j g''o c{ ''dg''wpcy ctg''qh''kx.''cu''O cy ncy k'*ct/Two k+16_'' uc{u<

Lwuv'hkng''y g''ej krft gpøu'hqpf pguu'qh'y gkt ''o qvj gt u. Jg't gi ctfu'pqv'y g''uc vkuhcevkqp''qh'jku'f guktg''kp''ht cpmkpegpug0

I qf.''y g'Cm'y kug.''j cu''gpf qy gf ''o cp''y ky ''cm'f gukt gu''cpf '' kpuvkpewi'y j krg''cnuq''et gcvkpi ''qwukf g''qh'o cp''y g''o gcpu''vq'' ucvkcvg''cpf ''o ggv''y gug''f gukt gu0'Ki'o cp''gxgt ''dgeqo gu'y ktuv{.'' y cvgt ''ku''et gcvgf ''*vq''s vgpej ''kv+.''cpf ''kh''y gtg''ku'j vpi gt.''hqqf ''cnuq'' gz kuvu0'Ki'o cp''ku''gpf qy gf ''y kj ''y g''ugz vcn''kpuvkpev.''ur qwugu'' j cxg''dggp''et gcvgf ''hqt''j ko.''cpf ''kh''y g''ugpug''qh''uo gm'ku''et gcvgf .'' y kpi u''vq''uo gm'j cxg''dggp''et gcvgf ''vqq0

Co qpi ''y g''r tqhqwpf guv'hgghpi u''qh'o cp''ctg''y g''f guktg'hqt'' gwgtpkx{.''nqxg''qh'r gthgevkqp''cpf ''y g''{ gctpkpi 'hqt''ko o qtvcrkx{0'C'' tgrcvkqpuj kr ''y kj ''I qf ''cpf ''y qtuj kr r kpi ''J ko ''i vectcpvgg''y g'' hwhkmo gpv'qh''y gug''pewten'kperkpevkqpu0'Rtc{gt''cpf ''y qtuj kr ''ctg'' y g''tgrcvkqpuj kr u''qh'o cp''y kj ''y g''Hqwpvckpj gcf ''qh''Rgthgevkqpu.'' heo krketkv{''y kj ''y g''T gcn'Dgrqxgf.''cpf ''uggnkpi ''tghwi g''kp''y g'' Gvgtpcn''Rqy gt0'

Vjg'Tqqv'qh'Yqtujkr

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Y j q''eqwrf ''tgeqi pk g''I qf ''y ky ''cm'J ku''r gtr gwcn's wcrkskgu''cpf "
r gthgevkqpu'y ky qwy'tguqt kpi ''vq''uwdugtxkgpeg''cpf ''qdgkucpeg''vq''
J ko A'Vj tqwi j ''uvqtkgu''cpf ''j kuvqtkecn''ceeqwpu. ''y g''S wtøcp''
gzr tguugu''y g''uki pu''qh'J ku''r qy gt''cpf ''i tcpf gwt0
''
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Kďuvcvgu''y cv'I qf ''i cxg''c''ej kf ''vq''O ct { co ''*O ct { +'y kj qw'j gt '' j cxkpi ''c''j wudcpf ='J g''ur nkv''y g''P krg'Tkxgt''hqt''O wuc''*O qugu+'' *\div+<u>17</u>_'cpf ''f tqy pgf ''Hkt÷cy p''*Rj ctqcj +''y gtgkp=''J g''o cf g''y g'' r tqr j gw''*\div+''xkevqtkqwu''y j krg''dgkpi ''go r v{/j cpf gf.''ci ckpuv''y g'' uwr gtr qy gtu''qh''y gkt''tgur gevkxg''vko gu.''cpf ''twddgf ''y g''pqug''qh'' y g'''ci j wu''<u>18</u>_''kp''y g'' tqwpf Q9_
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Kťku'J g''Y j q''etgcvgf "{qw''qw''qh''tkhgrguu''erc {."cpf "{qwt ''tkhg''cpf " f gcvj ''cu'y gm'cu'j qpqt"} $\frac{1}{2}/cj$; "cpf ''j wo ktkcvkqp"}fj kncj; ''ctg'' kp''J ku'j cpf 0'Ku''y gtg''cp{qpg''y j q''eqwrf ''r gtegkxg''j ku''qy p'' y gcmpguu. ''ko r qvgpeg.''ki pqtcpeg.''cpf ''tko kcvkqp''cu''y gm'cu'' r tgf kevcdrg''cpf ''vpr tgf kevcdrg''r gtkni''cpf ''o kuj cr u. ''dw''eqwrf ''pqv'' ugpug''y g''pggf ''hqt''y g''Rqy gt''qh''Ucrxcvkqp''cpf ''hqt''j ko ''vq''

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uwdo kv''vq''KvA
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Kp'xctkqwu'xgtugu.''y g'S wtøcp'tgo kpf u'o cp'qh'j ku'y genpguu." uc { kpi <'C v'y g''ko g''qh'dkty .''{ qw'j cf ''pq''cy ctgpguu''qh''cp { y kpi =" { qw'y gtg''wwgtn{ ''kp''c''uvcvg''qh'y genpguu''uwej ''y cv''chvgt'' ces wktkpi ''uvtgpi y .''{ qw''uj cm''cnuq''dg''j gef kpi ''vqy ctf ''y genpguu'' ci ckp0'

Kp"gxgt{"o qo gpv."{qw'ctg'wpfgt"yjg"yjtgcv'qh'fkhhgtgpv'v{rgu"qh" fcpigtu0

Ka'ý g'o qxgo gpv'*dqý 'tqvcvkqp''cpf 'tgxqnvvkqp+''qh'ý g'gctý " uj qwnf ''unqy 'f qy p''qt''uj qwnf ''ý g''f c{ ''uvcpf ''uvkm ''y j q''eqwnf '' gzr gf kvg''kvu''o qxgo gpv''cpf ''ej cpi g''kvA

õUc{.'+Vgndb g.'lj qwnf'{qwt'y cvgt'llpmfqy p'}kpvq'lj g'' it qwpf;.'y j q'y knddt kpi '{qw't wpp kpi 'y cvgt Aøö]:__

õKdY g'y kuj 'Y g'ecp'o cmg'kv'*y cvgt +'dkvgt 0Vj gp'y j {'f q'{qw'' pqv'i kxg'ij cpmuAö];__

'nããããã Bããããããããããã

õKdY g'y kuj. 'Y g'luvt gn{ 'lwt p 'kv'*r nc p v+'kp vq 'ej c hh 'y j gt gc v'{qw'' ct g'lghv'luvp pgf '*qt 't gi t gvluvn+0]32_

õ KdY g'hang. 'Y g'ecp'o cmg'ij g'gct ij 'lış cmqy 'ij go .'qt'hgv'hcml' qp'ij go 'c'htci o gpv'htqo 'ij g'lum(00]33_

Vj g'S wtøcp'o gpvkqpu''y gug''cpf ''vgpu''qh''qy gt ''gzco r ngu''uq''cu''vq'' vcng''o cp''qwi'qh'j ku''pgi nki gpeg. ''qdnkvgtcvg''j ku''r tkf g''cpf ''kpxkvg'' j ko ''vqy ctf ''y qtuj kr ''cpf ''uwdo kuukxgpguu''vq''y g''Etgcvqt0 ''

Vjg'rtqhwpfkx{'qh'yqtujkr

Y qtuj kr "ku"cp"cev."y j kej "y g"qwwy ctf n{ "eqpukf gt"cu"c"v{ r g"qh"

j wo ktk/ .''dwi'ki'j cu'f ggr gt'r tqhwpf k/{0' Y qtuj kr ''uvgo u'htqo ''y g''uqwn='ki'ur tkpi u'htqo '' i pquku'' $o c \neq ktcj$; =''ki'go cpcvgu'htqo ''eqi pkkqp=''ki'qtki kpcvgu'htqo '' r kgv{ ''}*vcs cff wu*; =''ki'tcf kcvgu''htqo ''cf qtcvkqp=''ki'f gtkxgu'htqo '' cf o ktcvkqp=''ki'eqo gu'htqo ''uggnkpi ''tghwi g''cpf ''cuukuvcpeg=''cpf ''ki'' ctkugu'htqo ''y g''nqxg''qh''y g''r gthgevkqpu''}*mc o cnc v*, ''qh'y g'' Y qtuj kr r gf ''Dgkpi ''}*o c =dwf*; 0'

[gu. 'y qtuj kr 'ku''qwy ctf n{ 'c''uko r ng''cev.''dwi'kh''ku''qvj gt ''y cp'' y g''cdqxg. 'y qtuj kr ''y kni'pqv''dg''gpvgtvckpgf ''d{ ''o cp0'Y qtuj kr '' o gcpu''go r v{ kpi ''y g''j gctv'qh'o cvgtkcn''y kpi u. ''ngwkpi ''y g''ur ktk'' hn{. 'cpf ''cmqy kpi ''y g''hggv''q''o cng''uvgr u''dg{ qpf ''y g''uggcdng''cpf '' j gctcdng''y kpi u0'Y qtuj kr ''i wctcpvggu''y g''nqxg''qh''o cp''y j qug'' r qrksgpguu''kp''tgrcvkqp''q''j ku''Nqtf ''ku''uqo gvko gu''gzr tguugf '' y tqwi j ''gwqi { ''cpf ''cfqtcvkqp=''cv''qvj gt ''vko gu''y tqwi j '' i nqtkhkecvkqp''} w udk ; ''cpf ''ucpevkhkecvkqp''} w sf ku; ='cpf ''{ gv''cv'' uqo g''qvj gt ''vko gu. ''y tqwi j '' i tcvkwf g''cpf ''i guvxtgu''qh''uvdo kuukqp0 "

KpfkHgtgpeg'\qy ctf 'y qtuj kr

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 \int cftcv \underline{34} = Crk' + c + uc \{u < "
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â Băæâ ••••••

õMay I get blind if after having passed so many years of my life (and with the possession of all talent, capabilities, facilities, intellect, knowledge, and inspiration), I now turn into an animal in human form!"

[gu."ekxktk cvkqp."vgej pqnqi { "cpf "ý g"r tqi tguu"qh"pgy " kpuvtwo gpvu"j cxg"o cf g"hkhg"o qtg"eqo hqtvcdng."dguvqy kpi " eqo hqtv"cpf "y grhctg"cu"c"i khv"*vq"vu+."dwv"f qgu"y g"r gthgevkqp"qh" o cp"hg"kp"cvvckpkpi "uwej "o cvgtkcn"eqo hqtvuA

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Kt'ý ku'ku'uq. 'ý gp'ý g'cpko cnu'ctg'o qtg'cf xcpegf 'ý cp'o cp'kp"
hqqf. "enqý kpi. 'j cdkxcvkqp. "cpf 'ý g'ucvkuhcevkqp"qh'ectpcn'f guktg#
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Kp"\gto u'qh'hqqf.'\y g{ "gcv'dgwgt."ctg"o qtg"eqo hqtvcdrg."cpf "
j cxg"pq"pggf "qh"eqqnkpi "cpf "r tgr ctcvkqp#
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Kp'\gto u'qh'enqyi kpi .''y g{ 'j cxg'pq'pggf 'hqt'ugy kpi .''y cuj kpi ''
cpf 'ktqpkpi #
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Kp'\gto u'qh'ectpcn'f guktg.''y g{ 'uc\kuh{ 'kv'y ky qwi'f khhewnv{ ''cpf ''
r tgf keco gpv0
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Kp"r tqewtkpi "c"r nceg"hqt"j cdkcvkqp."vj gtg"ctg"uq"o cp{"dktfu"cpf" kpugevu"y j qug"vgej pks vg"kp"o cmkpi "pguvu"cpf"f gpu"cuvqpkuj gu" o cp0'

Kp"guugpeg."j cu'vj ku'vgej pqnqi kecn'cf xcpego gpv'dtqwi j v'cdqwi' r tqi tguu'kp"qwt"j wo cppguu"cu'y gmA

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J cxg'kpf kxkf wcn'cpf 'eqngevkxg'eqttwr vkqpu'rguugpgf A
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J cu'ý ku'eqo hqtv'cnuq'dtqwi j v'tcps wkrkv{ A
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Kp"cp{ "ecug." lwuv'pqv'r mekpi "yj g"j cpf "qh"o cp"kp"yj cv'qh"yj g"
kphenkdng"cpf "lwuv'ngef gtu"y qwrf "dg"cp"kplwuvkeg"vq"j wo cpkv{." kh"
yj g"j getv"qh"o cp"ku"pqv'nkpngf "vq"I qf." cp"kpuwrv"y qwrf "j cxg"
dggp"o cf g"vq"yj g"uvevkqp"qh"j wo cpkv{0
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Vjg'r ngcuwtg'qh'Iqf'cu'tjg'czku'qh'tyqtujkr

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Lxuv'cu'j gcxgpn{ 'dqf kgu'cpf ''y g''gcty ''cny c { u'j cxg''c''hkzgf ''czku''
y qwi j ''y g { ''o cmg''f kxgtug''tqvcvkqpu''cpf ''tgxqnwkqpu. ''y qtuj kr .''
y kj ''cm'lku''xctkqwu'hqto u''cpf ''cr r gctcpegu. ''ku''cnuq''cpej qtgf ''kp''
c''hkzgf ''czku. ''y j kej ''ku''y g''r ngcuwtg''qh'I qf 0'Vj ku''ku''kp''ur kg''qh''
y g''hcev''y cv''ur cvkcn''cpf ''yoo r qtcn''cu''y gm''cu''kpf kxkf wcn'cpf ''
eqmgevkxg''ektewo uvcpegu''f gvgto kpg''y g''v{ r g''qh''o qxgo gpv''
cmpi ''y ku''czku0
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Hqt"gzco r ng. 'tcxgn'o cngu'*c'hqwt/e\{eng''\}tcmej; +"r tc\{gt"c" w q/tcmej"r tc\{gt=kmpguu'o c\{"pgeguukcvg"ej cpi gu'kp"vj g'hqto " qh'vj g'r tc<math>\{gt0'[ gv."vj g"vy q/tcmej"qt"uj qtvgpgf"r tc<math>\{gt"ku'uvkm'c" r tc\{gt"cpf"kv'ku'dcugf"qp"vj g"czku'qh'tgo go dgtkpi "I qf."uggmkpi " J ku'r ngcuvtg"cpf 'r gthqto kpi "J ku'eqo o cpf < "
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 $\tilde{o}Cpf'bckpwkp'ljg'rtc{gt'hqt'O{'tgogodtcpeg0b]}35_$

Vjg'urktkv'qh'yqtujkr

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Y qtuj kr 'ku'ý g''pqwtkuj o gpv'qh'ý g''uqwn'cpf 'ý g''dguv'hqqf 'ku'ý cv'' y j kej 'ku''cduqtdgf ''d{ ''ý g''dqf {0'Uko krctn{ .''ý g''dguv'cev'qh'' y qtuj kr 'ku'ý cv'y j kej 'ku'kpvgtpcnk gf ''d{ ''ý g''uqwn=''ý cv'ku.''kh'kv'ku'' r gthqto gf ''y kj ''gpvj wukcuo ''cpf ''r tgugpeg''qh'j gctv0Gcvkpi ''vqq'' o wej ''hqqf ''ku''pqv''dgpghkekcn0'Y j cv'ku''ko r qtvcpv'ku''gcvkpi ''wughwn'' hqqf 0'

Vj g''J qn{ ''Rtqr j gv'*U<u>+136</u>'uckf ''vq''Lcdkt ''kdp''-:Cdf ''Cmcj '' cn'Cp ctk<

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Kof ggf ''vj ku'tgrki kqp''ku'hkto 0'Vj gtghqtg."cev'o qf gtcvgn{ ''kp'' tgrcvkqp''vq''kv'*cpf ''y j gp''{qw'j cxg''pq''ur ktkwcn'tgcf kpguu'hqt'' y qtuj kr.'fq''pqv'ko r qug''kv''qp''{qwtugrh+''uq''vj cv'vj g''y qtuj kr ''qh'' Cmcj ''y qwrf ''pqv'dg''f gvguvgf ''d{ ''{qwQ37_

Kp"cpqy gt" cf kj. "y g"cnuq"tgcf "y cv'y g"J qn{ "Rtqr j gv"*U+"uckf < "

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õ D
nguugf 'ku'j g'y j q''nqxgu'y qtuj kr 'cpf 'ku'cny c
 u'hqpf ''qh'kwj38

O qf gt c vkqp'kp'y qt uj kr

Vj g''ur ktk/qh'y qtuj kr ''cpf ''f gxqvkqp''tgo ckpu''crkxg''y j gp''o cp''ku'' o qf gtcvg''kp''ku''r gthqto cpeg0'Vj ku'j cu''dggp''pcttcvgf ''kp''y g'' dqqmu''qh'' *cf kj* ''wpf gt''y g''j gcf kpi .''*dcd''crt/ks vk cf ''hørt +kdcf cj* '' }ugevkqp''qp''o qf gtcvkqp''kp''y qtuj kr ; 0<u>39</u>____

O cp'ku'j gcnj { 'y j gp''j gtg'ku'r tqr qt kqpcrkv{ 'kp''j ku''dqf kn{ " nko du.''cpf 'kh'c''egt vckp''dqf { ''o go dgt 'ku''dki i gt''qt''uo cmgt''y cp'' y g''pqto cn'uk g. ''kv'ku''eqpukf gtgf ''f ghqto gf ''*qt''f ghge kxg''kp'' i gpgtcn+0'Kp''ur kt kwcn'ch'cktu.''o cp''uj qwrf ''cnuq''j cto qpkqwun{ '' pwt wtg''cm''y cv'ku''xcnvcdrg''kp''j ko ugrh0'

KVy cu'tgr qtvgf ''q''y g''J qn{ ''Rtqr j gv'*U+''y cv'wpf gt''y g''r tgvgzv'' qh'y qtuj kr .''c''i tqwr ''qh''j ku''*wo o cj* ''}eqo o wpkv{ ; ''j cf '' cdcpf qpgf ''y gkt''ur qwugu''cpf ''ej kft tgp''cpf ''j cf ''ugenwf gf '' y go ugnxgu''kp''y g''o qus wg0'Vj g''Rtqr j gv''ucvgf ''kp''c''nqwf ''xqkeg<'' õVj ku''ku''pqv'o { ''y c{ ''cpf ''o gy qf 0'Ko { ugth''co ''thxlpi ''y kj ''o { '' ur qwugu''cpf ''tgukf g''kp''o { ''j qwug0'Cp{ qpg''y j q''cevu''eqpvtct { ''q'' y ku''f qgu''pqv''dgnqpi ''q''o g0j<u>3:</u>_''' Ko co "c / cf ks "* \div +"pcttcvgu"y g"uvqt { "qh"c"O wurko "y j q"j cf "c" Ej tkuvkcp"pgki j dqt "y cv"go dtcegf "Kurco 0"Vj cv"O wurko "j cf " cy cngpgf "y g"hqto gt "Ej tkuvkcp"f wtkpi "y g"htuv"f cy p"*r tkqt "vq" y g"vko g"hqt"y g"f cy p"r tc {gt"} *crcj "cw/uwd* ; +."dtqwi j v"j ko "vq" y g"o qus vg"cpf "uckf "vq"j ko <õRgthqto "{qwt "uwr gtgtqi cvqt { " pki j v"r tc {gtu"} *wj cllwf*; "vkm"y g"vko g"hqt "y g"f cy p"r tc {gt "cpf "

Vj gp. 'tgcf 'ý g''S wtøcp''wr ''q''ý g''vo g'hqt''ý g''pqqp''r tc{gt''} crcj " $c \neq wj t$; @''Kp''ý ku'o cppgt. 'ý g''O wurko ''wti gf ''ý g''hqto gt" Ej tkuvkcp''q''gpi ci g''kp''r tc{gt. 'tgekcn'qh''ý g''S wtøcp''cpf " uwr r necvkqp''f c{ ''cpf ''pki j v0'Y j gp''ý g''pgy ''O wurko ''tgwtpgf " j qo g. 'j g''cdcpf qpgf ''Kurco ''cpf ''f kf ''pqv'i q''q''ý g''o qus wg" cp{o qtgQ3;____

[gu.'uwej ''gz tgo kuo ''cpf ''ncem'qh''o qf gtc kqp''kp''y qtuj kr ''y km'' f tkxg''r gqr ng''cy c{0

```
Vj g'o ctv{tgf 'r tqhguuqt. 'O wtvcf c'O wcj j ctk]42_'pcttcvgu'y cv'

-Co tw'kdp''cn'-C 'j cf ''y q''uqpu0Qpg''y cu''c''xqvct{''qh'J cf tcv''

-Cnk'*-c+''y j kg''y g''qy gt''y cu''c''uwr r qtvgt''qh'O w-ey k{cj 0Qpg''

f c{.'y g''Rtqr j gv'*U+''uckf ''q''y g''i qqf ''uqp''qh''-Co tw'kdp''cn'-C ''

*pco gf ''-Cdf ''Cmcj +<õKj cxg''j gctf ''y cv''{qw''ur gpf ''{qwt ''pki j v''

kp''y qtuj kr ''cpf ''{qwt ''f c{ ''kp''hcukpi 06''J g''uckf <õ[ gu.'Q''

O guugpi gt''qh''Cmcj 06''Vj g''Rtqr j gv'*U+''uckf <õVj ku''y c{ ''ku''pqv''

ceegr vcdng''q''o g06]43_''''
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Y g'tgcf 'kp''y g''tcf kkqpu<"

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···''B 🔬 Bæääããë ä

õKpfggf.''y gtg'ku'kpenkpcvkqp''cpf'fkukpenkpcvkqp''kp''y g'j gctv'*qh'' o cp+0j]44_''

[qw'j cxg'\q'\cmg''cf xcp\ci g''qh'y j gtgxgt'kv'kpenkpgu''cpf 'hgcpu'' vq0Cpf 'y j gpgxgt'kv'ku'pqv'tgcf { .'f q'pqv'gzgtv'r tguuwtg''qp''kv'' qvj gty kug''kv'y km'wpeqpuekqwun{ ''uj qy ''c''pgi c\xg''tgce\kqp0' ''

Kp''y g''Kuco ke''kpuxtwevkqpu''kv'ku''o gpvkqpgf ''y cv''{qw'j cxg''vq'' f kxkf g''{qwt''vko g''kpvq''hqwt''r ctvu. ''cpf ''cmqv''vko g''hqt'' gpvgtvckpo gpv''cpf ''gplq{o gpv.''hqt''kh''{qw'fq''uq.''{qw'y kn''cnuq'' j cxg''gpvj wukcuo ''hqt''qvj gt''cevkxkkguQ45_ Vjg"Jqn{ 'S wtøcp''i kxgu''y g''kxrg"qh''õxkqrcvqtuö''vq''y g''Lgyu''y jq'' gpi ci gf 'kp''y qtm'cpf ''y gpv'hkuj kpi ''f wtkpi ''y g''Ucddcyj 'Fc{<

ä äää

õCpf 'egt vc kp n{ '{qw'hp qy 'lj qug'qh{qw'y j q'xkqnc vgf 'lj g'' Uc ddc vj (bj]46_''

"

"

"

Kp"cp{"ecug."mggr kpi "| gcn"cpf "ctfqt"kp"y qtuj kr "ku"c"r tkpekr mg" y j kej "eqo gu"kpvq"dgkpi "vj tqwi j "o qfgtcvkqp0

O cpci go gpv'lp'y qt uj kr

O cpci go gpv'ku''eqphkpgf ''pqv''qpn{ ''vq''uqekcn''r qrkxkecri'cpf '' geqpqo ke''kuuwgu0'Kp''hcev.''f gxqvkqpcri'chhcktu''ctg''cnuq''kp''pggf ''qh'' o cpci go gpv0 ''

Vj g'r tkpekr ngu'f kuewuugf 'kp''o cpci go gpv'ctg<'Rncppkpi ''cpf '' y qtnif guki p=''ugngevkqp''qh''cp''ghhkekgpv'y qtnhqteg='f kuekr nkpg''cpf '' uwr gtxkukqp=''gpeqwtci go gpv'cpf ''eqpvtqn''cpf ''y g''tkng0'Kp''y g'' f qo ckp''qh'y qtuj kr .''y gug''r tkpekr ngu''uj qwrf ''cnuq''dg''qdugtxgf ''kp'' qtf gt ''vq''gpi gpf gt ''cf xcpego gpv''cpf ''r gthgevkqp0 ''

Rtc{gt'j cu'c''ur gekhle''f guki p="kv'uvctuu'y kj ''*vcmdht* ''} wwgtcpeg''qh'' *Cncj w'cmdct*; ''cpf ''gpf u'y kj ''*ucnco* ''qt''*vcurko* ''} ucnwcvkqp; 0'Ku'' pwo dgt''qh'*t cmæj* u''}e{engu; .''*t wmw*?''}dqy kpi ''f qy p; ''cpf ''*uwlwf* '' }r tquvtcvkqp; ''ku''ur gekhlgf 0'Ku''vo g''qh'r gthqto cpeg''ku'' f gvgto kpgf ''cpf ''ku''f ktgevkqp''ku''vqy ctf ''y g''s kdrcj ''} y g''*Mc* -dcj '' kp''O geec; 0

Vj g'o gtg'f guki p.'j qy gxgt.'ku'pqv'gpqwi j 0'Ku'r gthqto cpeg'cnuq" pgeguukscvgu'y g''ugngevkqp''qh''c''eqo r gvgpv'cpf ''uqekcm{ ''qtkgpvgf '' eqpi tgi cvkqpcn'r tc{gt''ngcf gt''}*ko co*; 0'Vj tqwi j ''i qqf ''o cppgtu.'' o qtcnkx{.''uwr gtxkukqp.''cpf ''gpvj wukcuo .''yj g''r gqr ng''gpeqwtci gf '' cpf ''r gtuwcf gf ''yq''r gthqto ''r tc{gt''cpf ''cwgpf ''yj g''o qus wg0' ''

Qtf gt"cpf "cttcpi go gpv"kp"'y g"nkpgu"qh"y g"eqpi tgi cvkqp"cu'y gm" cu"kp"hqmqy kpi "y g"*Ko co "*uj qwrf "dg"qdugtxgf 0"kp"cp{ "ecug."kv" tgs wktgu"r gthgev'o cpci go gpv"hqt"kv"vq"dg"eqpf wevgf "kp"'y g"dguv" r quukdng"o cppgt0 Cp{qpg'ecp'j cxg'eqo o wpkqp'y kj 'I qf 'cv'cp{ ''ko g.'wpf gt'cp{ '' ektewo uvcpeg.''cpf '' y kj qw'cp{ ''r tkqt ''cttcpi go gpv'cpf '' o gf kcvkqp0'Cnj qwi j ''ur gekcn'vko gu''uwej ''cu''y g''ko g''qh'f cy p.'' uwpugv'qp''Htkf c{.''chvgt''y g''f gfxgtcpeg''qh''y g''Htkf c{ ''r tc{gt'' ugto qpu.''y j gp''kv'ku''tckpkpi .''cpf ''y g''P ki j v''qh''Rqy gt''} $nc {nc'' cn's cf t} [47_j' cxg''r ctvkewrct''ko r qtvcpeg''hqt''uwr r hecvkqp'' }f w c n'' cpf ''y qtuj kr''} -kdcf cj ; .''uwr r hecvkqp''cpf ''f gxqvkqp''ctg'' pqv'eqphkpgf ''q''y gug''r gtkqf u0$

Y qtuj kr."cv'cp{ 'tcvg. 'ku''y g''o gf kekpg'hqt''pgi nki gpeg."qdnkxkqp" cpf ''f kuqdgf kgpeg<"õ*Cpf ''o ckpvckp''y g''rtc{gt'hqt''O{*" *tgo go dtcpeg0i*]48_''Ki'ku''y g''uqwteg''qh''tcps vkrkx{ ''cpf ''ugtgpkx{ '' cpf ''y g''ghhcegt ''qh''cpzkgvkgu''cpf ''y qttkguô õNqqn#'Vj g''j gct vu'' *hpf 't guv'kp''Cncj øu't go go dtcpeg#*ö]49_

Y qt uj kr 'cu'tj g'uqwt eg'qh'tt cps wkdw{

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[qw'mpqy "qh'twhkcp"w*i j w*u."dki "ecr kxcrkuvu."cpf "r quuguuqtu"qh" mpqy ngf i g."kpf wuxt { "cpf "vgej pqnqi { ."dwv'f q"{ qw'mpqy "cp{ qpg" co qpi 'vj go ''y j q'j cu'r gceg"qh'o kpf "cpf "tcps wkrkv{ "qh'j gctvA" "

F q''Y guvgtp''uqekgvkgu''vqf c { 'j cxg''r gceg''qh''o kpf ''cpf ''tcps wkrkv{ '' qh'j gct vA''

```
J cxg''y g''r quuguulqp''qh''r qy gt. 'lxpf wuxt { ''cpf ''y gcny ''dtqwi j v''
cdqwi'ugtgpkx{ . ''ht lgpf uj kr . ''tcps wkrkx{ . ''cpf ''r gceg''qh''o lxpf A
''
```

```
[ gv.'y qtuj kr 'cpf ''qdgf kgpeg''q'I qf ''dtkpi ''cdqwi'uwej ''c''uvcvg''hqt"
y g''uckpwi'qh'I qf ''y cv'wpf gt ''pq''ektewo uvcpeg''y j cuuqgxgt ''y qwrf ''
y g{ ''gzr gtkgpeg''cpzkgv{0Cv''y ku''lwpewtg.''kv'ku''cr r tqr tkcvg''hqt"
o g''q''pcttcvg''y q''tgeqmgevkqpu''qh''y g''I tgcv'Ngcf gt ''qh''y g''
Kurco ke'T gxqnwkqp.''Ko co ''Mj qo gkpk'*s +4:_____
```

```
Chvgt ''y g''guecr g''qh''y g''Uj cj 'htqo ''Kcp. ''gxgp''y qwi j ''j ku''
uwdugtxkgpv'r wr r gv. ''Uj cr wt ''Dcnj vk{ ct ''y cu''twhpi . ''Ko co ''
Mj qo gkpk'f gekf gf ''vq''tgwtp''vq''j ku''eqwpvt { ''chvgt ''36''{ gctu''kp''
gzkrg0'C ''tgr qtvgt ''kp''y g''cktr rcpg''cungf ''j ko <'õY j cv'f q''{ qw''hggn''
pqy Aö''J g''tgr nkgf <'õP qyi kpi #ö
```

```
Vj ku'ku'y j krg'o krrkqpu'qh'gpyj wukcuvke 'Kcpkcpu'y gtg'y qtt { kpi "
hqt'y g'uchgv{ "qh'y g'Ko co 0J cxkpi 'r gceg''qh'o kpf.'y g'Ko co "
```

```
y cu'dwu{ 'kp''y g''pki j v'uwr gtgtqi cvqt{ 'r tc{gtu'cpf 'tgo go dtcpeg'' qh'I qf 0'
```

Vj ku'tcps wkrkv{ 'y cu'qpn{ 'dgecwug''qh'j ku''eqpuvcpv'tgo go dtcpeg'' qh'J ko 0

Vj g"qıj gt"tgeqmgevkqp."y j kej "Kj gctf 'htqo ''y g"uqp"qh''y g" Ko co .''y g''rcvg" cll''Uc{{kf 'Cj o cf 'Mj qo gkpk 'ku''y ku<õQp''y g" fc{"qh'y g''Uj cj øu"guecr g'htqo ''Kcp.''vgpu"qh'tgr qtvgtu"cpf 'r j qvq" lqwtpcnkuvu'htqo ''ctqwpf ''y g''y qtnf ''i cy gtgf ''kp''y g''j qwug''qh''y g" Ko co ''kp''Rctku''kp''qtf gt''vq''tgrc{''j ku''ur ggej gu''vq''y g'y qtnf 0'Vj g'' Ko co ''uvqqf ''qp''c''ej ckt''cpf ''wvgtgf ''c''hgy ''uvcvgo gpvu0'

Vj gp."j g"wtpgf "\q"o g"cpf "cungf <":Cj o cf."j cu'\j g"\ko g"hqt"\j g" pqqp"r tc {gt"} cnj "c / nj t; "cttkxgf Aø"Kuckf <":{ gu@"Y kj qw" cp{"f grc{."\j g"Ko co "eqpenting f"j ku''ur ggej "cpf "eco g"f qy p" htqo "\j g"ej ckt"hqt"\j g"r gthqto cpeg"qh"r tc {gt"cv'ku''kpkkcn*cpf " dguv+'\ko g0'Cm'y gtg"r gtr mzgf "cu'\q"y j cv'j cf "j cr r gpgf 0'Kuckf <" :-Vj g"Ko co "r gthqto u'j ku'r tc {gt"qp"\ko gø0"

Y j cv'ý g'Ko co 'f kf 'kp'Rctku'y cu'c''ŋuuqp'j g'j cf 'hgctpgf 'htqo " j ku'hgcf gt.'Ko co ''ct/Tkf c'**± +0'KVj cu'dggp'tgeqtf gf 'kp'j kuvqt { " ý cv'ý g''ej kgh'qh'ý g'i tqwr ''qh'Ucdgcpu.''c''i tqwr ''ý cv'j cu'dggp" o gpvkqpgf 'kp''ý g'S wt¢cp.]4;_'y cu''cp''cttqi cpv'cpf 'hcpcvke" uej qnct0'

Y j gpgxgt'j g'y qwf ''ukv'f qy p''kp'c''f kcmi wg'y kj 'Ko co ''ct/Tkf c'' $* \div +$ ''j g'y qwf ''pqv'uwttgpf gt''cpf ''eqpegf g''wpvkn'y j gp. ''f wtkpi ''c'' egt vckp''kpvtlecvg''f kuewuukqp. 'j ku'o kpf ''dgeco g''uq''eqphwugf ''y cv'' j g''uckf <õP qy. ''o {''j gctv'j cu''uqhvgpgf ''cpf ''Kceegr vgf ''{qwt'' mi ke0o''Cv'y cv'vko g. ''y g''ecmi'vq''r tc{gt''}*cfj cp*; ''y cu'tgekvgf 0'' Ko co ''ct/Tkf c''* $\div +$ ''nghv''y g''cuugo dn{''kp''qtf gt''q''r tc{0''' ''

```
Cnj qwi j ''y g''eqo r cpkqpu''qh''y g''Ko co ''*\div +''kpukuvgf ''y cv''kh'j g''
eqpvkpwgf ''y g''f kuewuukqp''hqt ''uqo g''o qo gpvu. ''y g''ej kgh''qh''y g''
Ucdgcpu''cpf ''cm'j ku''hqmqy gtu'y qwf ''dgeqo g''O wurko u. 'j g''*\div +''
uckf <õVq''r gthqto ''y g''r tc{gt''cv''ku''gctrkguv'*cpf ''dguv+''vko g''ku''
o qtg''ko r qtvcpv''y cp''f kuewuukqp0'Ka'j g''tgcm{ ''f gugtxgu''kx''j g''ecp''
cnuq''ceegr v''y g''twj ''chvgt''y g''r tc{gt0'Vj g''Ucdgcp''uej qrct. ''y j q''
ucy ''y ku''f ki pkv{.''f gekulxgpguu. ''qdgf kgpeg''cpf ''qxg''hqt''y g''twj ''
kp''y g''Ko co ''*\div +''dgeco g''o qtg''kpvgtguvgf Q<u>52_'</u>'''''''
```

Y qt uj kr 'cpf 'ces wkulskqpu

Y qtuj kr 'ku'c'o gcpu'vq'ces wktg'f kxkpg'j grr 'cpf 'i tcegu0 ããa âââa

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õCpf 'y qt uj kr '{qw'Nqtf 'wp walegt vc kp v{ '*qt 'f gc vj +'eqo gu'vq'' {qw@]53_

J cf tcv'O wuc'*O qugu+'* \div r'gpi ci gf 'kp'y qtuj kr ''cpf ''tkcpkgu'hqt'' 62'f c{u''cpf ''pki j wi'qp''y g'O qwpv'qh'' wt'hqt''y g''ces wkukkqp''qh'' y g''j gcxgpn{''dqqm''Vcy tcj '*Vqtcj +0'Vj g''J qn{''Rtqr j gv'qh'' Kurco '*U+'y cu''dwu{ ''kp''y g''r gthqto cpeg''qh''cewi'qh'y qtuj kr ''kp''y g'' ecxg''qh'' ktc'hqt''c''nqpi ''vo g''dghqtg''y g''ces wkukkqp''qh'f kxkpg'' tgxgrckqp0'Ki'ku''y wu''uvcvgf ''kp''y g''tcf kkqpu<

õJ g'y j q''ukpegtgn{ 'y qtuj kr u'Cmcj 'hqt'hqtv{ 'f c { u. 'ur tkpi u''qh'' y kuf qo ''uj cm'cr r gct''htqo ''j ku''j gctv''q''j ku''qpi wg@j<u>54_</u> [gu. ''ukpegtg''y qtuj kr 'ku''cp''cecf go { ''y cv''tckpu''kp''y g''eqwtug''qh'' hqtv{ 'f c { u''y g''uci g''y j q''y qwrf ''ces wktg''y kuf qo ''htqo ''y g''f kxkpg'' hqwpvckp''cpf ''uj ctg''kx''y ky ''qy gtu0

Vjg't gekrt qecnightgewi'qhihc køj 'cpf 'yqt uj kr

Lwuv'cu'hcký "f tcy u'o cp''qy ctf "y qtuj kr ."y qtuj kr "ku'cnuq" ghlgevlxg"kp"uvtgpi ý gplǫi "hckj 0"Vj gkt"uko krkwef g"ku''ý cv'qh'c" tqqv'y j kej "f grlxgtu''y cvgt"cpf "hqqf ''q''ý g"dtcpej gu."cpf "kp"wetp." ý g"dtcpej gu''vtcpuhgt"j gcv'cpf "hi j v''q''ý g"tqqv0[gu."y j gpgxgt" y qtuj kr "ko r tqxgu"cpf "kpetgcugu."o cpøu"gpvj wukcuo "vqy ctf "ý g" Qdlgev'qh"Y qtuj kr "ku'cnuq"gpj cpegf 0"

Vjg'r jkquqr j{'qh'yqt ujkr'ceeqt fkpi'vq'vjg'Swtøcp

Vj g'S wtøcp'tgi ctf u'y g'tgo go dtcpeg''qh'I qf ''cu'y g''r j knuqr j {" qh'r tc{gt<ã*Cpf 'b ckpwkp 'ij g'r tc{gt 'hqt 'O { '' tgo go dtcpeg@*]55_'Cpf ''y g''tgo go dtcpeg''qh'I qf ''ku''y g'' uqwteg''qh''tcps wktk{ ''qh''y g''j gctv<ã*Nqqnt#'Vj g'j gct wi'hpf 'tgw'' kp 'Cncj øu'tgo go dtcpeg#*ö]56_''

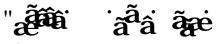
Cpf ''y g''eqpugs wgpeg''qh''tcps wkrkx{ ''qh''y g''j gctv'ku''uqctkpi ''y'' y g''egrguvkcn''tgcm *<"õQ''luqwrlc'v'r gc eg#'T gvwt p ''y' { qwt ''*

Nqtf#ö]<u>57</u>_

"

"

Kp"qvj gt"ecugu.''y g"S wtøcp"eqpuk
f gtu''i tcvkwf g''vq''I $\,$ qf "cu''y g" $\,$ tgcuqp"d
gj kpf ''y qtuj $\,$ kr<



õY qtuj kr'{qw'Nqtf.'yjq'etgcvgf'{qw0j<u>58</u>

õNgv'ij go 'y qtuj kr'ij g'Nqtf'qh'ij ku'J qwug.'y j q'j cu'hgf'ij go '' }cpf'licxgf'ij go ;'htqo'j wpi gt.'cpf'ligewtgf'ij go 'htqo'' hgct0b]59_

Kp"uqo g'xgtugu. "yj g"gf wecvkqpcn"hwpevkqp"qh"r tc{gt"j cu"dggp" r qkpvgf "qwv<

" äâzeaä aê ä

õKpfggf'\jgg'tc{gt'ttgxgpvu'kpfgegpekgu'cpf'\ytqpiu(b]<u>5:</u> "

Hqt''y g''ucmg''qh'y g''cwy gpvlekv{ "qt''ceegr vcpeg''qh'r tc{gt.''y g'' r gthqto gt''qh'r tc{gt'j cu''pq''qr vkqp''dwv'vq''qdugtxg''y g''tgrki kqwu'' r tgegr w''cu''c''y j qrg.''y g''qdugtxcpeg''qh'y j kej ''ku''kwgrh''c''uvtqpi '' hqwpf cvkqp''hqt''cduvckpkpi ''htqo ''ukp''cpf ''kpf gegpe{0[gu.''cp{qpg'' y j q''y qwrf ''y gct''c''y j kg''i cto gpv'y km''pcwtcm{ ''pqv''ukv''qp''c''' f kt v{ ''cpf ''r qmwgf ''i tqwpf 0' Chygt''gplqkpkpi ''r tc{gt.''y g''S wtøcp''uvcvgu<

"ä [:]âëa^aä _ââ^eä

õKpfggf'l qqf'fggfu'ghceg'b kufggfubj<u>5;</u>

Vj wu. 'r tc{gt 'ku'c'r tcevkecn'tgr gpvcpeg'hqt'r cuv'ukpu. 'cpf 'ý tqwi j " y ku'xgtug. 'I qf 'i kxgu'j qr g'vq'ý g'ukppgt'ý cv'kh'j g'y qwrf " r gthqto 'o gtksqtkqwu'cevu'uwej 'cu'r tc{gt 'cpf 'y qtuj kr.'j ku'' o kuf ggf u'y km'dg''gtcugf 0

Rtc{gt'lp'vjg'yqtfu'qh'Koco∹CnK*∺c+

"

"

J cf tcv': Ch¢u'* \div +'o cp{'tghgtgpegu'\q'r tc{gt'cpf '\j g'' tgo go dtcpeg''qh'I qf ''cu'tgeqtf gf '\\p''P*cj l''cn/Dcrci j cj* <u>162_''</u> j cxg''dggp''eqo r krgf '\\p''C''dqqm''gp\kxrgf .''*Pco c/ 'f ct 'Pcj l'' cn/Dcrci j gj* ''}Rtc{gt'\\p''P*cj l''cn/Dcrci j cj*; 0J gtg.''Kuj cm's wqvg'' c''ucvgo gpv''qh'\j g''\Ko co ''* \div +''eqpegtpkpi ''y g''r j krquqr j {''qh'' i mtkhecv\qp''cpf ''y g'tgo go dtcpeg''qh'I qf ''y j qug'o quv'' ko r qtvcpv'o cpkhguvcv\qp'\ku''r tc{gt<

ĩã đái đấ đản đản cản chiến "a chiến c

Egtvckpn{.'Cmcj.''y g''I mtkhkgf.''y g''Uwdnko g.''j cu''o cf g''J ku'' tgo go dtcpeg''y g''hk j v'hqt''j gctwi'y j kej ''j gct''y ky ''kwi'j grr '' f gur kwg''f gchpguu.''ugg''y ky ''kwi'j grr ''f gur kwg''dhkpf pguu''cpf '' dgeqo g''uwdo kuukxg''y ky ''kwi'j grr ''f gur kwg''wptwrkpguu'<u>Q63_</u> Vj gp.''eqpegtpkpi ''y g''dnguukpi u''qh''r tc{gt.''y g''Ko co ''*c+''uckf < ''

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"â 差 ấ^t ඤ^{‡t}â â "_ấä ất ẩặ ẩ ẩ ất ở ất æâ" â "ä ất ất æ ắt ất æ

Vj g"cpi gnu'j cxg"uwttqwpf gf "ý go "*r gthqto gtu"qh"r tc{gt+"cpf " r gceg"ku"uj qy gtgf "wr qp"ý go 0"Vj g"f qqtu"qh"j gcxgp"ctg"qr gpgf " hqt"ý go "cpf "cdqf gu"qh"dnguugf pguu. "qh"y j kej "J g"j cf "kphqto gf " ý go ."j cxg"dggp"r tgr ctgf "hqt"ý go $Q64_{}$ " Kp"cpqý gt"ugto qp. "ý g"Ko co "* \div +"uc{u<

$$\label{eq:constraint} \begin{split} &\tilde{o}Egtvckpn\{."r\,tc{gt"tgo~qxgu"ukpu"hkng"cwwo~p"uvtkru"hgcxgu"qhh"htqo~"vtggu."cpf"kv"hdgtcvgu"{qw"htqo~"vj~g"tqrg"*qh"ukpu+"vkgf"ctqwpf"{qwt"pgentoj_65_"} \end{split}$$

Kp"eqpvkpvcvkqp."jg"pcttcvgu"cp"kpvgtguvkpi "eqorctkuqp"htqo" yjg" Jqn{"Rtqrjgv"*U+<

õRtc{gt'ku'hkmg'c'j qv'ur tkpi 'ukwcvgf ''cv'uqo gqpgøu'f qqt0"Kd'j g'' vcmgu''c''dcvj ''kp''kv'hkxg''vko gu''c''f c{.''y km'yj gp''cp{''f ktv'tgo ckp''qp'' j ko Aö]<u>66_'</u>'

Kp''Ugto qp''3; 8.''y g''Ko co ''* \div +''gpwo gtcvgu''uqo g''qh''y g''o qtcn'' xkegu''uwej ''cu''r tkf g''}*mkdt*; .''f kuqdgf kgpeg''cpf ''qr r tguukqp''' } *wro*; .''cpf ''y gp''j g''* \div +''uc{u<'õK''ku''qp''ceeqwpv''qh''y gug''r gtku''

y cv'I qf 'j cu'gpeqwtci gf 'J ku'dgrkgxkpi 'ugtxcpw''q''r gthqto " cncj ''cpf ''/cncj.]67_''q''hcuv'f wtkpi ''y g''f c{u'y j gp''kv'ku''o cf g" qdrki cvqt{06''Vj gp.''eqpegtpkpi ''y g''ghhgewu''qh''r tc{gt.'j g'* $\div c$ +" uc{u<''

}Vj ku'cev'qh'y qtuj kr; 'i kxgu''y gkt "*I qf øu'dgrkgxkpi ''ugtxcpwø+" nko du'r gceg''cpf 'tguv.''ecuwi'hgct''kp''y gkt ''g{gu.''uqhvgpu''y gkt '' ur ktku.''ewnkxcvgu'c''ugpug''qh'j wo krkv{ ''kp''y gkt 'j gctwi'cpf 'r wti gu'' y go ''htqo ''r tkf g0'C v'y g''vko g''qh'hgct.''cpzkgv{ ''cpf ''nqpgrkpguu.'' tgo go dtcpeg''qh''[qw'i kxgu''y go ''gpvj wukcuo ''cpf ''kpvko ce{Q68_ ''

Qh'eqwtug. 'kv'ku'qdxkqwu''y cv'gxgt {qpg'f qgu''pqv'tgegkxg''uwej " dgpghkwu'htqo 'r tc{gt='tcy gt. 'kv'ku''qpn{ 'y cv'i tqwr 'y j kej 'ku'' gpco qtgf ''d{ 'r tc{gt''cpf ''y g''tgo go dtcpeg''qh'I qf 0'Vj ku'i tqwr " y km'pqv''gzej cpi g''y go 'hqt''y g''gpvktg''y qtnf 0

Vj g'ghlgevu'cpf 'dıgudipi u'qh'ugt xkwf g'cpf 'uwdo kudqp

30Ugpug'qh'j qpqt 'cpf 'guvggo

Ko co '\ c{p''cn' \div Cdkf kp''* \div c{u'kp''j ku'hkcpkgu''}o wpclcv \prec

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õQ'Nqtf#KVku'entgef { "gpqwi j "qh'ep"j qpqt'hqt"o g'vj ev'Keo " [qwt'ugtxcpv@j<u>69_</u>

Y j kej 'j qpqt'ku'o qtg'uwdrko g''y cp''y cv'o cp''eqwrf ''crm''q''j ku'' Etgcvqt''cpf 'J g''kp''wtp''y qwrf ''rkuvgp''q''y g''y qtfu''qh'o cp''cpf '' i tcpv''y go A#

Kp''ý ku'hnggvkpi ''y qtrf.''kh'c''r gtuqp''ur gcmu''y ký ''c''uej qrct''qt''c'' i tgcv'o cp.''j g''hggnu''c''ugpug''qh'j qpqt''dgecwug''qh'j ku''r tgugpeg'' cpf ''y g''qr r qtwpkv{ ''q''dg''kp''eqpxgtucvkqp''y ký ''j ko.''cpf ''y cv'c'' r gtuqp''y j q''y cu''qpeg''c''uwvf gpv''qh'c''egtvckp''f kuvkpi wkuj gf '' r tqhguuqt''cnuq''i kxgu''j ko ''ugnh' guvggo 0

40Ugpug'qh'uvt gpi vj

Uq"npi "cu"c"ej kf "ku"j qrf kpi "yj g"j cpf "qh"j ku"uvtqpi "cpf "nkpf" hcyj gt."j g"hggnu"c"ugpug"qh"uvtgpi yj ."dwv"kh"j g"ku"cnqpg."j g" gzr gtkgpegu"hgct"cpf "crrtgj gpukqp"hguv"qyj gtu"cppq{gf "j ko 0 "

C''r gtuqp'y j q'ku'nkpngf ''q'I qf 'hggnu'c''ugpug''qh''utgpi y " xku/«/xku''y g''uwr gtr qy gtu." *ci j w*u''cpf ''cttqi cpv'*r qy gtu+0 "

"

"

50Ugpug'qh'f ki pkv{

F ki pk{"} $\frac{1}{2}$ /cj; "o gcpu'pqv'vq"eqo g"wpf gt 'vj g"kphrwgpeg"qh" qy gtu0Kp 'vj g"uej qqn"} o cmcd; "qh'vj g"r tqr j gvu"} cpdk{ cø "* $\frac{1}{2}$ +." cm'f ki pkv{ "dgnqpi u'vq"I qf "lwuv'cu"cm'r qy gt "dgnqpi u'vq"J ko 0' Vj wu. 'vj g"S wtøcp"etkkek gu"vj qug"y j q"kpenkpg"vq"qvj gt 'vj cp" I qf. 'uc {kpi <foF q"{qw'y cpv'f ki pkv{ "htqo "qvj gt 'vj cp"I qf Aö]6:____"

Ki'ku''pcwtch'y cv'rkprikpi 'y ky 'y g'Cduqnwg''Dgrqxgf 'cpf 'Gwgtpch' Rqy gt''i kxgu''f ki pkv{ 'vq''o cp. 'lwuv'cu''y qtf u'uwej ''cu''õ*Cncj w'' cndct* ö''}Cncj ''ku''i tgcvgt; 'j wo krkcvg''y g''*ci j w*u''kp''y g''g{gu''qh'' o cp''cpf ''o cng''j ko ''f ki pkhkgf ''kp''eqo r ctkuqp''vq''y go 0 ''

Uq."'y g'S wtøcp"qtf gtu'wu''q"uggmir qy gt"cpf "uvtgpi y "htqo " r tc{gt"cpf "y qtuj kr "y j gp"y g"hceg"f khkewnkgu"cpf "cf xgtukkgu< "

õCpf '\cmg't geqwt ug '\p 't c \dgp eg 'cpf 't c {gt 0;]6;__

F wtkpi ''etkkecn'o qo gpu. ''y g''uckpu''qh'I qf ''cnuq ''wugf ''u'' uvtgpi y gp''y go ugnxgu''y tqwi j ''r tc{gt0Qp''y g''chwgtpqqp''qh''y g'' pkpy ''f c{ ''qh'O w cttco ''kp''Mctdcmø''y g''cto { ''qh'[c| kf ''o cf g''cp''' cuucwn/''qp''y g''eco r ''qh''Ko co ''cn' wuc{p'* $\div c$ +0'Vj g''Ko co ''* $\div c$ +'' uckf <'õRquvrqpg''y g''dcwrg''hqt''qpg''pki j v'cu''Kco ''hqpf ''qh''r tc{gt'' cpf ''Ky qwrf ''rkng''u''gpi ci g''kp''y qtuj kr ''upki j v''km'o qtpkpi @j72_'''

Vj g'tki j vgqwu'ugtxcpwu'qh'I qf "ctg"pqv'qpn{ 'hqpf "qh'yj g" qdrki cvqt { "}*y clkd*; 'r tc{gtu'dwi'cruq"qh'yj g'tgeqo o gpf gf " }*o waxc cd*; 'r tc{gtu0Vj g'tgeqo o gpf gf "r tc{gt"ku''c"uki p"qh" hqpf pguu'hqt"r tc{gt0Vj gtg"ctg"o cp{ 'r gqr rg"y j q'r gthqto ''yj g" qdrki cvqt { 'r tc{gtu''f vg''q'hgct"qh''f kxkpg"y tcy ''hqt"o kuukpi " y go 0'Y kj 'tgur gev''q''y g'tgeqo o gpf gf 'r tc{gt."j qy gxgt."rqxg" tcy gt ''y cp'hgct 'ku''pqv'y g''kuuvg0 [gu."cp{qpg"y j q"nqxgu"uqo gdqf {"hkngu"vq"vcmi'y kj "j ko "o qtg" cpf "f qgu"pqv"y cpv"vq"ugr ctcvg"htqo "j ko 0J qy "eqwnf "o cp"encko " y cv"j g"nqxgu"I qf "y j gp"j g"j cu"pq"gpvj wukcuo "hqt"ur gcnkpi " y kj "J ko A#

Qh'eqwtug. 'ý ku'f kuvcuvg'hqt'r tc{gt'cpf 'tgeqo o gpf gf 'cevu'ku'pqv' y kj qw'tgcuqp0'Kp'hcev. 'ceeqtf kpi '\q'ý g'\tcf kkqpu. 'ukp'\cmgu'' cy c{ 'ý g''qr r qt wpkv{ 'hqt'ý g''pki j v'cpf 'f cy p''uwr gtgtqi cvqt { '' r tc{gtu0<u>73_'''</u>

Kp"cp{"ecug."y g"qpg"y j q"f qgu"pqv"r gthqto "y g"qr vkqpcn"r tc{gtu" ku"pqv"y qt y {"qh"gzr gevkpi "xkt wgu"htqo "I qf."lwuv"nkng"uqo gqpg" y j q"ku"y ckkpi "hqt"y g"cf xgpv"qh"y g"Tghqto gt"}o w nk; "*Ko co " cn'O cj f k"*x++"y j krg"j g"j ko ugnh"ku"pqv"tghqto gf "qt"tki j vgqwu" } cnk; 0

Vj g''tgeqo o gpf gf ''r tc{gtu''cnuq''eqo r gpucvg''hqt ''y g''f ghgevu''cpf '' uj qtveqo kpi u''qh''y g''qdrki cvqt{ ''r tc{gtuQ74_'C''egtvckp''r gtuqp'' cungf ''y g''Ko co ''* \div +KõO { 'j gctv'ku''pqv'kp''o { ''r tc{gt''cpf ''Kf q'' pqv'dgpghkv'htqo ''y g''drguukpi u''qh''r tc{gt0'Y j cv'uj qwf ''Kf qAö'' Vj g''Ko co ''* \div +''uckf <õChvgt ''y g''qdrki cvqt{ ''r tc{gtu.''r gthqto ''y g'' qr vkqpcn''r tc{gtu''cu''y g{ ''eqo r gpucvg''hqt ''y g''uj qtveqo kpi u''qh'' y g''hqto gt''cpf ''ngcf ''vq''y g''ceegr vcpeg''qh''y g''qdrki cvqt{ '' r tc{gtuØö

Ki'ku'qp''ceeqwpv'qh''y gug''ghhgewi''cpf ''dnguulspi u''y cv'y g''uclspwi'qh'' I qf 'r clf 'o wej ''cwgpvlqp''pqv''qpn{ ''q''y g''qdnki cvqt{ 'r tc{gtu'dwi'' cnuq''q'y g''qr vlqpcn'r tc{gtu.''cpf ''y g{ ''wugf ''q''nggr ''cnqqh'htqo '' y qug''y kpi u''y cv''qduvtwev''cpf 'f kuwtd''y ku'tgnki kqwu''y c{hctlspi '' cpf ''ur ktkwcn'cuegpulqp''uwej ''cu''gzeguulszg''gcvlspi .''gzeguulszg'' vcmlspi .''gzeguulszg''unggr kpi .''gcvlspi ''wpncy hwn''qt ''wpncy hwm{ '' gctpgf 'hqqf .''f gdcwej gt{.''cpf ''y qtnf n{ ''gpi ci go gpvu.''y j kej '' nggr ''o cp''cy c{ ''htqo ''y qtuj kr ''cpf ''o cmg''r tc{gt''j gcx{ ''hqt''j ko 0' Cu''y g'S wt¢cp''uc{u<

"â ä æ ĝi äiàa âi äa"

õCpf 'kv'*rtc{gt+'ku'kpfggf 'j ctf 'gzegrv'hqt 'ij g'j wo dng0b]75_ "

60Vt clplpi 'ċi gpv

"

"

Cnj qwi j 'r tc{gt'ku'ur ktkwcn'cpf 'tgrki kqwu'eqo o wpkqp'y j qug'' cko 'ku'y g'tgo go dtcpeg'qh'I qf.'Kurco ''uggmu''vq''ko r ngo gpv'y ku'' ur ktk/*`qh'eqo o wpkqp+'wpf gt''y g'htco gy qtm'qh'c''ugv'qh'' gf wecvkxg''r tqi tco u.''cpf ''y wu.''kv'j cu''ugv'o cp{ ''tgs wktgo gpvu'hqt'' kô kQ0'tgs wktgo gpvu'hqt''y g''eqttgevpguu'qh''y g''r tc{gt.'' tgs wktgo gpvu'hqt''ku''ceegr vcpeg''cpf ''tgs wktgo gpvu'hqt''ku'' r gthgevkqp0

Engcprkpguu'qh'ý g''dqf { ''cpf ''enqý kpi .'hcekpi 'ý g''s *kdrcj* .''eqttgev'' tgekcn'qh'ý g'y qtf u. 'r gto kuukdktw{ ''}*o wdc* ; ''qh'ý g''r rceg''cpf '' enqý kpi ''qh'ý g''r gthqto gt''qh'r tc { gt''ctg''uqo g''qh'ý g''r cevqtu'' pgeguuct { 'hqt'ý g''eqttgevpguu''qh'r tc { gt.''y j kej ''ctg''tgrcvgf ''vq''ý g'' dqf { ''qh'ý g''r gthqto gt''cpf ''pqv'j ku''uqwt0

J qy gxgt. "Kunco 'j cu'htco gf ''y ku'r tc{gt 'kp''y ku'o cppgt''uq''cu''y" i kxg''nguuqpu''y g'O wurko u''cdqwi'j {i kgpg. "engcpnkpguu." kpf gr gpf gpeg. "cpf ''y g''qdugtxcpeg''qh''y g''tki j wi'qh''qy gtu0 "

Lwuv'hkng"eqpegpvtcvkqp. "eqo r ngvg"f gxqvkqp. "ceegr vcpeg"qh'vj g" ngcf gtuj kr "qh'vj g"kphcnkdng"Ko co u'* $\div c$ +"cpf "r c{o gpv'qh'vj qug" hkpcpekcn'qdrki cvkqpu'uwej "cu'*nj wo u*]76_"cpf "/*cmcv*'ctg" tgs wktgo gpvu'hqt"vj g"ceegr vcpeg"qh'r tc{gt."uq'vqq"ctg"vj g" r gthqto cpeg"qh'r tc{gt"cv'ksu"gctrhguv'vko g."kp"vj g"o qus vg"cpf "kp" eqpi tgi cvkqp. "vj cv'vj g"r gthqto gt"qh'vj g"r tc{gt"vj gctu"engcp" i cto gpvu."cr r nkgu'r gthvo g."dtwuj gu'j ku'vggvj."cpf "qdugtxgu'vj g" qtf gt"qh'vj g"hkpgu'cpf "vj g"hkng"ctg"co qpi "vj g"tgs vktgo gpvu'hqt" y g'r gthgevkqp"qh'r tc{gt0'

C''nggp''uetwalp{''qh''y gug''tgs wluksgu'o cngu''ks''engct''y cv'gcej ''qpg'' qh''y go ''r nc{u''c''ng{''tqng''kp''tckpkpi ''j wo cp''dgkpi u0' ''

Y j kej gxgt'f ktgevkqp'y g'uvcpf 'kp'r tc{gt'ku'vqy ctf 'I qf."cu'y g" S wtøcp''uvcvgu<"

"a aa a a a

õUq'y j kej gxgt 'y c{'{qw'wtp.'y gtg'ku'y g'hceg'qh'Cncj #ö]77_

"

J qy gxgt."kp"qtf gt"hqt"O wurko ''uqekgv{ ''vq''wpf gtuvcpf ''y cv''kv'' o wuv'j cxg"c"ukpi ng"f ktgevkqp"cpf "ngctp''y g"nguuqp"qh''wpkv{ "cpf " uqnkf ctkv{."gxgt { qpg"ku"qtf gtgf ''vq"hceg"c"ukpi ng"f ktgevkqp0'Dwv'' y j { ''ku''y cv'f ktgevkqp''vqy ctf ''y g"*Mc -dcj A*'' K'ku''dgecwug''y g''*Mc \div dcj''ku''y g''h*tuv'r meg''vq''j cxg''dggp''ug
ngevgf '' cu''c''r meg''hqt''y g''y qtuj kr ''qh'o cpmhpf <

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õKpfggf'ljg'hktuv'jqwug'lq'lg'lgv'wr'hqt'bcpmkpf'ku'ljg'qpg'cv'' Dcmmcj.]78_'dnguugf'cpf'c'iwkfcpeg'hqt'cnlpcvkqpulb]79_ "

Qp"qpg"j cpf. ''y g"hqwpf gt "cpf "ewuxqf kcpu"qh'y g" $Mc \rightarrow dcj$ " y tqwi j qw''j kuxqt { ''j cxg"dggp"r tqr j gwl"* $\div +0$ 'Vj wu. 'uvcpf kpi " hcekpi ''y g" $Mc \rightarrow dcj$ "ku'c''uqtv'qh'kf gqmi kecn'uqnkf ctkx{ ''y tqwi j qwl' y g''ci gu0'

Qp''y g''qy gt''j cpf.''y g''*Mc \neqdcj* 'ku''y g''uqwteg''qh''kpf gr gpf gpeg0'K' ku''dgecwug''y j gp''y g''O wurko u''y gtg''uvkm'hcekpi ''y g''Dc{v'' cn'O ws cff cu.''y g''s *kdrcj* ''qh''y g''Lgy u''cpf ''Ej tkuvkcpu.''y g''rcvgt'' vcwpvgf ''y g''hqto gt.''uc{kpi <"õ[qw''ctg''ucpf kpi ''y j krg''hcekpi ''qwt'' s *kdrcj =*'y j { ''f q''{qw'j cxg''pq''kpf gr gpf gpegAö''Vj g''S wtøcp''y wu'' uvcvgu''y kyi ''wo quv''gzr nkekpguu<

õVwtp'{qwt'hceg''qy ctf''y g'J qn{'O qus wg.'cpf''y j gtgxgt'{qw'' o c{'dg.''wtp'{qwt 'hcegu''qy ctf'ky.'uq''y cv''y g'r gqr ng'b c{'' j cxg'pq''cti wo gpv'ci chpuv'{qw0b]7:_

Kp"uwo.''y g"*Mc ÷dcj* 'ku''y g''uqwteg''qh''kpf gr gpf gpeg.''wpkv{ "cpf " uqnkf ctkv{.''cpf ''y gug''ctg''y g''gf wecvkxg''nguuqpu''qh''r tc{gt0

70Uwo o qpkpi 'wr 'ur kt kw#

Vj g'o ctngv'hqt'j {r pqvkuo "cpf 'uwo o qpkpi 'wr 'ur ktku'j cu" hrqwtkuj gf 'pqy cf c {u'kp''y g''y qtrf .'dwv'qwt''r qkpv'ku'pqv''y qug" y kpi u0'Qwt''r qkpv'ku''y cv'y g''j cxg''vq''uwo o qp''wr ''qwt''twpcy c {" uqwrl'vqy ctf ''y g''Etgcvqt''y tqwi j ''r tc {gt''cpf ''ngv'y ku''twcpv'r wr krl' dg''r tgugpv'kp''encuu0'Qpg''qh''y g''drguukpi u''qh''r tc {gt''ku''y g'' uwo o qpkpi ''wr ''qh''y g''tgdgrrkqwu''cpf ''twpcy c { ''uqwrl'vq''y g'' Rtgugpeg''qh'I qf 0'

Kp''y g''O wpclcv'cuj /Uj cm/kp.'Ko co '\ c{p''cn' \div Cdkf kp''* \div c+"

eqo r nckpu'kp''y g'Rtgugpeg''qh'I qf ''ci ckpuv'j ku''qy p''uqwn''uc { kpi <" õQ'I qf #Kco ''eqo r nckpkpi ''\q'[qw'ci ckpuv'c''uqwn'y j kej ''ku'' kpenkpgf ''vqy ctf ''ectpcn'f guktgu''cpf ''ku''guecr kpi ''htqo ''y g''twj 0ö ''

Ki'ku'ý ku'uqwn'ý cv'eqpukf gtu'ukp''q''dg''uy ggv'cpf 'nki j v''q''o cp." lwuvkh{kpi ''kv'ý wu<'õ[qw'y km'tgr gpv'chvgty ctf ''cp{y c{.ö''qt'' õQý gtu'j cxg''cnuq'f qpg''ý gug'f ggf uôö''Vj g''uqwn'ku''nkmg''c''y cpvqp'' ej knf 0'Kh'j ku''hcy gt ''ku''pqv'y cvej hwn'qh'j ko .''j g''y km''ugr ctcvg''htqo '' j ku''hcy gt ''cpf ''i q''y j gtgxgt 'j g''y cpvu.''cpf ''kp''gxgt { ''o qo gpv'j g'' ku''uwuegr vkdng''q''gxgt { ''nhpf ''qh'f cpi gt0

Vj g"dguv'y c{"qh'eqpvtqnkpi 'y ku'tgdgnkqwu'uqwn'ku'hqt 'o cp'vq" uwo o qp'kv'ugxgtcn'vko gu'c'f c{ 'vq'y g'Rtgugpeg"qh'I qf 'cpf " y gtgd{ 'tgo qxg'kw'pgi nki gpeg"cpf 'ucxg'kv'htqo 'f tqy pkpi 'kp'y g" s wci o ktg''qh'o cvgtkcn'y kpi u0

80I wetf kepuj kr'}y krc{cj;'qxgt'etgevkqp#

Co qpi ''y g''dnguukpi u''qh'r tc { gt ''cpf ''y qtuj kr 'ku''y cv'i tcf wcm{ '' o cp''ces wktgu''f qo kpcpeg''qxgt ''y g''wpkxgtug0

Here the two the two

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õKd{qw'ctg'y ct{'qh'Cncj.'Jg'lj cn/crrqkpv'c'etkgtkqp]7;_'' hqt'{qw0b]82_

Kp"cpqy gt "r nceg."kv"uvcvgu<

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õCpf 'l kxg'{qw'c 'lki j v'vq'y c mid{0j83_

Uq.'I qf/y ctkpguu''}vcsyc; ô ý g'o quv'ko r qtvcpv'cur gev'qh'' y j kej 'ku'ugtxkwf g'\q'I qf ''cpf ''r tc{gtô ku''c'uvgr ''qy ctf ''ý g'' ces wkukkqp''qh''nki j v''}pwt; ''cpf ''kpuki j v''}dc ktcj; 0'

Ugeqpf 'ingr <"Vj qug'y j q''ceegr v'f kxkpg''i wkf cpeg''cpf ''ctg''y ky kp'' y g''qtdkv''qh''twj.'I qf ''y km''gpj cpeg''y g''i wkf cpeg''y g{ ''r quuguu<

" Biaa attea a

õCu'hqt''y qug'y jq'ctg'}tki jw{;'lwkfgf.'Jg'gpjcpegu'y gkt'' iwkfcpeg0b]84_

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J gpeg. 'vj gkt 'hki j v'cpf 'i wkf cpeg''uj cm'pqv'egcug='tcvj gt. ''qp'' ceeqwpv'qh'yj g''uwdo kuukqp''cpf ''ugtxkwf g. ''yj g{ ''ctg''cny c{u'lp''c'' uvcvg''qh''cf xcpego gpv''cpf ''r tqzko kv{ ''}*s wt d*; ''*vq''I qf +.''cpf ''yj g'' tcf kcpeg''qh''yj gkt ''gzkuvgpeg''uj kpgu''dtki j vgt0

Vj kt f 'lwgr < 'Ukpeg''y gug'kpf kxkf wcnu''ctg''gzgt kpi ''ghtqt v'kp''y g'' y c{ ''qh'I qf .'I qf ''y km''uj qy ''y go ''o cp{ ''r cy u''ngcf kpi ''vqy ctf '' r gthge kqp<

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õCu'hqt 'ij qug'y j q'lat kxg'kp 'Wu. 'Y g'ij c nilavt gn{ 'i wlf g'ij go 'kp '' Qwt 'y c {ulb]85_

Hqwt vj 'ivgr <"Y j gpgxgt"Ucvcp"o cngu"cp"kpukpvcvkqp"vq"vj go ." vj g{ 'y km'ko o gf kcvgn{ "dg"tgo kpf gf "cpf "cunihqti kxgpguu"htqo " Cmcj <

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õY j gp 'lj qug'ly j q'ctg'I qf/y ct{'ctg'lqwej gf 'd{'c'xkukvcvkqp'' *qt 'kpukpwcvkqp+'qh'Ucvcp.'lj g{'tgo go dgt'}Cncj ;00<u>86</u>

Hkhyj 'twgr <'Rtc { gt 'ku''yj g''dguv'o gcpu'hqt 'ugrh/dwkrf kpi ''cpf '' mggr kpi ''cmqqh'htqo ''kpf gegpe { ''cpf ''gxkn<

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õKpfggf'\ijg'rtc{gt'rtgxgpwikpfgegpekgu'cpf'\ytqpiulb]87_

Chygt 'hqmqy kpi ''y gug''uvgr u.''o cp''y kn''ces wktg''f qo kpcpeg''qxgt '' j ku''uqwt0J g'j ctpguugu''kv''cpf ''y kn''pqv'dg''gpvcpi ngf ''d{ '' kpukpwcvkqpu''cpf ''f guktgu0Cu''c''o cwgt ''qh''hcev.''y j gpgxgt ''y g'' r tguuwtg''qh''kppgt ''kpukpwcvkqp''}*y cuy cucj*; ''cpf ''qwygt'' *ci j wv*''ku'' kpvgpukhkgf.''j g''y kn''ci ckp''uggn''cuukuvcpeg''y tqwi j ''r tc{gt''cpf '' r cvkgpeg<

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Uzvj 'ivgr <'I qf/y ct{"}*o wwcsk*; 'kpf kxkf wcn.'y j qug'gzkwgpeg" ku'knwo kpcvgf 'y kj 'y g'f kxkpg'hi j v'o qxg'c'uvgr 'hqty ctf 'y kj " gxgt{ 'r tc{gt.'hqt'r tc{gt'ku'pqv'tgr gvkkqp="kv'ku'cp'cuegpukqp0'Vj g" uvcku'qh'c'ncf f gt'ctg'cm'uko krct.'dwv'gxgt{ 'uvckt''dtkpi u'o cp'vq'c" j ki j gt'uvci g0'Ki'ku'hkng''uqo gqpg'y j q'f ki u'c'y gn0'Cr r ctgpvn{.'' j g''ku'f qkpi 'c'tgr gvkkxg''cuni'cpf 'ku'cny c{u'f ki i kpi .''dwi'kp'' tgcrkv{.''y kj ''gxgt{ 'uvtkng''y cv'j g''o cngu.''j ku'y gni'ku'dgeqo kpi '' f ggr gt0'

Vj g"t cmcju"}e{engu; "qh'r tc{gt"ctg"cr r ctgpvn{"tgr gvkkxg."dwv"kp" tgcnkv{."yj g{"ctg"uvcktu"kp"enko dkpi "yj g"ncf f gt"qh'r gthgevkqp"cpf " hqt"f ggr gpkpi "i pquku"} $o c \neq krj$; "cpf "hckj "}ko cp; 0

Vj g''r gthqto gt''qh''r tc{gt''f qgu''pqv'cmqy ''j ku''hhg''\q''dgeqo g''c'' i tc| kpi ''ncpf ''hqt''Ucvcp''qt''\q''dg''f qo kpcvgf ''d{''j ko 0'Kp''y g'' $Fw \neq \phi''$ O cmct ko ''cn'Cnj ncs.''Ko co '\ c{p''cn' \neq Cdkf kp''* \neq +"cumu''y ku''ht qo '' I qf <"õQ''Nqtf #'Kh''o {''hhg''ku''c''o gcf qy ''hqt''Ucvcp.''yto kpcvg''k#ö

Ucvcp"pqv"qpn{"i kxgu"kmwukqp"cpf "hcpe{"dwv"cnuq"etwuj gu"yj g" uqwn"qh"o cp"wpf gt"j ku"hggv"cpf "o cmgu"o cp"pgi nki gpv"qh"yj g" vtwyj "cpf "yj g"tgcnkx{0'

[gu.''y g'J qn{''Rtqr j gv'*U+'y cu'cy cmg''gxgp''y j gp''j g''y cu'curggr " y j gtgcu'y g'ctg''curggr ''y j krg''cy cmg''cpf ''gxgp''y j krg''y g''ctg" r tc{kpi ''qwt''uqwnu''ctg''y g''xkevko u''qh''Ucvcp''cpf ''y g''ko ci kpcvkqp0' Cu'O cy rcy k'uc{u<''

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Vjg'Rtqrjgv'uckf.'öO{'vyq'g{gu'ctg'cunggr'yjkng'o{'jgctv'' fqgupøv'unggr''cpf''nqtigv'vjg'Nqtf''qh'vjg''etgcwutgu0

[qwt"g{gu"ctg"cy cmg"cpf "vjg"j gctv"hgm"cunggr00 {"g{gu"ctg" cunggr "yj kng"o {"j gctv"ku"nqqmkpi "hqt"vjg"qrgpkpi "fqqt0o "

 $Vj g'Rt qr j gv' uckf '' j cv' ' j g' j gct v' ku' h kmg' c'' h gc v j gt. '' y j ke j '' ku'' ecr w t gf '' kp'' c'' f gu gt v'' d { '' c'' y kp f 0 }$

Vj g"y kpf "luj qquu"cy c{ "ly g"hgc vj gt "lq"gxgt { "eqt pgt "xc kpn{0" Uqo gvko gu"lq 'ly g"hghv"cpf "luqo gvko gu"lq"ly g"t ki j v"y ky "c" j wpf t gf "f klhgt gpeg0

Kh'ý ku'uqwiku'pqv'dtkfngf."gxgt{"o qo gpv'kv'ecp'ftcy "o cp" vqy ctf"eqttwrykqp<

õHqt''y g'}ectpcn;''uqwrlkpfggf''r tqorwu'}ogp;''vq'gxkn'gzegrv'' kpcuowej'cu'o{'Nqtf']cu'ogte{00]89_

Hqt''y ku'tgcuqp.''y g'S wt¢cp'tgi ctf u'r ctcf kug''cu''gzenwukxg'hqt" y qug''y j q'j cxg''pq'f guktg'hqt'f qo kpcpeg''cpf ''eqttwr vkqp''pqv'' qpn{ ''kp''y qtf u''dwi'cnuq''kp''y g'j gctv<u>08:</u> _'Cpf 'hqt''y qug''y j q'' r tgxgpv''y gkt''uqwu'htqo ''hqmqy kpi ''y gkt''f guktgu.''r ctcf kug''uj cm'' dg''y gkt''cdqf g<u>08;</u>____

Vj g''uckpwi'qh'I qf "ctg''y g''twrgtu''} $wnco c \phi$ "qxgt''y gkt''o kpfu" cpf "y qwi j wi'cpf "pqv''eqpf go pgf "}o c mwo kp; "d{"y go 0'Cu''c" tguwnv'qh''y gkt''ugtxkwf g''q'I qf.''y g{"j cxg''uwej 'i wctf kcpuj kr" } $y kc \{ cj ;$ "cpf 'f qo kpcpeg"}; 'qxgt''y gkt''uqwru''y cv''y g{'fq" pqv'cmqy "gxgp"cp''kpukpwcvkqp"}y cuy cucj; "'q"gpvgt''y gkt''j gctvu0

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Kco "htmg"c"dktf."Jg"ku"htmg"Lco uj f."cpf" (jg" (jqwi jv"qxgt" (jg" hf0 V i cp" cp" (ku"htmg"Lco uj f."cpf" (jg" (jqwi jv"qxgt" (jg"

Y j gp"ecp"Kj cxg"ceeguu"qxgt "\j g"h(A

Chygt "o cp"cwckpu"hki j v."eqi pkkqp"cpf "cy ctgpguu="eqpvtqni"y g" uqwn'y tqwi j "i pquvke."| gcmqwu"cpf "eqpuekqwu"r tc{gtu="ugwi"j ku" uqwn'y ctf "y g"r ngcuwtg"qh"I qf ="cpf "ces wktgu"i wctf kcpuj kr " cpf "f qo kpcpeg"qxgt"j ku"uqwn"j g"y km'cnuq"ces wktg"f qo kpcpeg" qxgt "etgcvkqp0J ku"uwr r hecvkqpu"y km'dg"ghhgevkxg"cpf "j g"ecp"

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rgthqto'fkxkpg'yqtmu0
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Vj g'o ktcengu''qh''y g''r tqr j gwl'*÷x+"ctg''y g''uco g''cwj qtkv{ "qxgt"
etgcvkqp"cpf "o cuvgt { "qxgt"pcwstg."y j kej ''y g{ ''r gthqto gf ''y kj "
f kxkpg"r gto kuukqp0
Vj g{ "ctg''y wu'uc { kpi <
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õUgtxkwf g"} \rightarrow ndnf k \{ cj ; "ku"c"i go "vj cv"dtkpi u"cdqw"nqtf uj kr "
}t ndndk \{ cj ; 06"
K"tgbgtu"va "vj g"f ao kocneg"avgt"vj g"etgcvkap"v i kei "tgjvnu"htao
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K/tghgtu''vq''y g'f qo kpcpeg''qxgt''y g''etgcvkqp''y j kej 'tguwnu'htqo "
ugtxkwfg''vq'I qf0
"
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Kýku't geqtf gf 'kp''y g''j cf kj ''y cv'I qf ''uc{u<''
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õVj tqwi j "qr vkqpcn'cpf "tgeqo o gpf gf "cevu."o cp"i gu<br/>"pgctgt"vq"
O g"uvgr "d{ "uvgr "vpvkn'uvej "c"vko g"vj cv"j g"dgeqo gu"O { "dg<br/>qxgf "
o c dwd_i "cpf "qpeg"j g"cvckpu"vj ku"uvcvkqp. "Ky km'dgeqo g"j ku"<br/>g{gu."gctu. "vqpi vg. "cpf "j cpf ."cpf "cm'j ku"cevkqpu"y km'dgeqo g"<br/>f kxkpg"cpf "r vtr qughvuOJ g"y km'tgcej "c"r qkpv'y j gtg"nkmg"J cf tcv"<br/>Kdtcj ko "*Cdtcj co +"*\div +."j g"y km'uc{<"""
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õKpfggf'b {'rtc{gt'cpf'b {'y qtuj kr.'b {'Hdg'cpf'b {'fgcyj 'ctg'' hqt'y g'ucmg'qh/Cmcj.'y g'Nqtf'qh/cmlyj g'y qtnfu0b]92_

Vjg'xkmcig'qh'rtc{gt

Y j cvgxgt"ecp"dg"uckf "cpf 'y tkvgp"cdqwi'r tc { gt 'y qwrf "uvkmi'pqv" dg"gpqwi j 'vq"hwm{ 'f guetkdg"ko0J qy "eqwrf 'kv"dg"r quukdrg"vq" gzr tguu'kp"c"hgy 'y qtf u'y g'r kmct"qh"tgrki kqp. 'y g"dcppgt"qh" Kurco . 'y g"tgo kpkuegpeg"qh'tgrki kqpu"cpf 'r tqr j gw. "cpf 'y g'r kxqv" qh'y g"ceegr vcpeg"qh"cmi'f ggf uA

"Rtc{gt'ku'y g'r tqi tco 'hqt'gxgt{"o qtpkpi 'cpf 'gxgpkpi 0Kp" y g'o qtpkpi 'y g'hktuv'qdrki cvqt{'y qtf 'ku'r tc{gt'cpf 'kp'y g'' gxgpkpi 'y g'hcuv'qdrki cvkqp'ku'r tc{gt0'Uq.'y g''dgi kppkpi ''cpf '' y g'eqpf wev'qh'gxgt{'fc{'ku'y tqwi j 'tgo go dtcpeg''cpf 'hqt'' y g''ucmg''qh'I qf0

"Rtc{gt'ku''y g'ugetgv'qh''y g''qpg''y j qô y j gtgxgt''j g'ku''cpf "

y j qgxgt'j g'ku.'y j gyj gt''tcxgrkpi ''qt''pqv.''qp''y g'i tqwpf ''qt''kp'' y g''ckt.'y j gyj gt''kp''r qxgtv{ ''qt''kp''chhrwgpegô ku''uwdugtxkgpv'' vq''J ko ''cpf ''pqv''vq''qyj gt''y cp''J ko 0'

"Rtc{gt'ku'y g'r tcevkecn'kf gqmi { ''qh'y g''O wurko ''kp''y j kej 'j g'' gzr tguugu'j ku''dgrkghu. ''kf gcu. ''cur ktcvkqpu. ''cpf ''o qf gnu0

"Rtc{gt"o gcpu"uvtgpi yj gpkpi "xcnvgu"cpf "r tgxgpvkpi "yj g" f kukpvgi tcvkqp"qh"yj g"r gtuqpcrkv{ "qh"kpf kxkf vcnu"cpf " o go dgtu"qh"yj g"uqekgv{ "kp"yj g"uco g"y c{ "yj cv"kh"yj g" o cvgtkcnu"qh"c"dvkrf kpi "ctg"y gcm"yj g"dvkrf kpi "y krn"eqmer ug0

"Vj g"ecm'\q"r tc { gt "} cf j cp; "ku"\j g"enctkqp"qh"o qpq y gkuo " }wy kf; ."y j kej "uwo o qpu"\j g"uecwgt gf "uqnf kgtu"qh"Kurco "kp" c"ukpi ng"hkpg"cpf "wpf gt"c"ukpi ng"dcppgt."cpf "r rcegu"\j go " dgj kpf "c"lwuv'ngcf gt "}ko co; 0

"'Vj g''ko co ''qh''y g''eqpi tgi cvkqp"} $lco c \div cj$; 'ku''qpg''r gtuqp''uq" cu''q''ugtxg''cu''c''enwg''y cv''y g''ko co ''qh''y g''uqekgv{"} $lco k \div cj$; " uj qwrf ''cnuq''dg''qpg''r gtuqp''uq''cu''q''j cxg''egpvtcrkt cvkqp''kp''y g'' eqpf wev''qh''chhcktu0

"Vj g"*ko co* "qh'y g"eqpi tgi cvkqp"ku'uwr r qugf "vq"cwgpf "vq"y g" y gcmguv'co qpi "y g'r gqr ng."cpf "y ku'ku'c "nguuqp 'y cv'kp" f gekukqp/o cnkpi ."y g"f gr tkxgf "encuu'qh'y g'uqekgv{ 'o wuv'dg" cwgpf gf 'vq0'Y j krg'r tc{kpi ."y j gp"y g'O guugpi gt"qh'Cmcj " *U+'j gctf 'y g"et{ "qh'c"ej krf ."j g'j wttkgf n{ 'r gthqto gf 'y g" r tc{gt'uq'y cv'kp"ecug'y g"o qy gt"qh'y g'ej krf 'j cf "gxgt" r ctvkekr cvgf 'kp"r tc{gt."uj g"eqwrf 's wkem{ 'cwgpf 'vq'y g'pggf u" qh'j gt"ej krf #<u>93_</u>"

"Vjg"hktuv'eqo o cpf "chvgt" vjg"etgcvkqp" qh"o cp" y cu" vjg" eqo o cpf "hqt"r tquvtcvkqp" cfftguugf "vq" vjg" cpignk" õRtquvtcvg" dghqtg'Cf co" *Cf co #tö]94_

"Vj g'htuv'r meg''qp''gctyj ''y cv'uwtheegf ''cpf ''dgeco g'ft { ''y cu'' y g''ukg''qh'y qtuj kr ''*O geec''cpf ''y g''Mc - dcj + 0.95_

"Vj g'hkuv'
vcum'f qpg''d { ''y g''O guugpi gt''qh'Cmcj ''*U+''chvgt''j ku'' go ki tcvkqp''}
jktcj; ''vq''O gf kpc''y cu''y g''eqpuvt vevkqp''qh''c'' o qu
s vg0

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"Rtc{gt'ku''dqyj ''y g''gplqkpo gpv''qh''y j cv'ku''i qqf ''}*co t ''* $dk\phin'o c \neq wh$ ''cpf ''y g''hqtdkf f cpeg''qh''y j cv'ku''gxki'}*pcj {k''* $\neq pk\phin'o wpnct$; 0'Y g''uc{ ''gxgt{fc{''kp''y g''cfjcp''cpf''}} ks co cj <'õEqo g''q''r tc{gt="eqo g''q''*y g''o gcpu''qh+'uweeguu=" eqo g''q''y g''dguv''qh'f ggf uô''Vj cv'ku.''qh''cm'ch'cktu.''y g''dguv'' f ggf ''ku''r tc{gt0'Cnq.''r tc{gt ''nggr u''o cp''cy c{ ''htqo ''} eqttwr vkqp''cpf ''kpf gegpe{<''

'''''5Kpfggf'ljg'tc{gt'tgxgpvu'kpfgegpekgu'cpf''
y tqpiulb]96_

"Rtc{gt''eqpukuwi'qh'o qxgo gpwi'y j kej 'j cxg''go cpcvgf 'htqo " eqpuekqwupguu'cpf ''eqi pkkqp0'Kk'ku''y tqwi j ''y g''eqi pkkqp''qh'' I qf ''y cv'd{ ''J ku''qtf gt. 'hqt''J ku''ucmg''cpf ''dgecwug''qh'| gcn'hqt'' J ko .''y g''uvcpf ''kp''r tc{gt.''cpf ''y wu.''y g''S wtøcp''j cu'' r tqj kdkgf ''wu''htqo ''r tc{kpi ''y j krg''kp''c''uvcyg''qh'' f twpngppguu<u>197_</u>''cpf ''kpf qrgpeg<u>198_</u>''uq''y cv'y j cvgxgt''y g'' tgekg'kp''r tc{gt''o wuv''dg''y kj ''eqpuekqwupguu''cpf ''cwgvkqp0

"Rtc{gt'i kxgu''cy ctgpguu0'Vj g''*Lwo \pm j* ''r tc{gt''ku'j gff ''gxgt{" Htkf c{ ''qh''y g''y ggni'cpf ''r tkqt''vq''kk''y q''ugto qpu''}*nj wdcj* u; " ctg'f gfxgtgf 0'Vj gug''y q''ugto qpu''ctg''o cf g''kp''fkgw''qh''y q'' *tcmæj* u''qh''r tc{gt.''cpf ''kp''c''ugpug.''ctg''r ctv''qh''y g''r tc{gt0' Ceeqtf kpi ''vq''Ko co ''ct/Tkf c''* \pm +''y g''ugto qpu''o ww''kphqto " y g''r gqr ng''qh''cm''y g''kuwgu''kp''y g''y qtnf 0<u>99</u>_''Nkwgpkpi ''vq'' y g''ugto qpu''cpf ''y gp''r tc{kpi ''o gcpu''dgkpi 'kphqto gf ''cpf '' y gp''r tc{kpi 0

"Rtc{gt"o gcpu"gzk/htqo "qpgøu"ugh"cpf "uqctkpi "vqy ctf" I qf 0Vj g'S wtøcp"uc{u"kp"yj ku"tgi ctf <

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Ko co "Mj qo gkpk'uc{u<" ""O ki tcvkqp"}*j kltcj*; "htqo "yj g"cdqf g"qh'yj g"j gctv'vq"I qf "ku" qpg"qh'ý g"o cpkhguvcvkqpu"qh'ý ku'xgtug0O ki tcvkqp"htqo " ugh/cf o ktcvkqp."ugh/egpvgtgf pguu"cpf "ugh/eqpegkv"vqy ctf " y qtuj kr "qh'I qf."mqxg"qh'I qf "cpf "I qf/y ctkpguu"ku'ý g" i tgcvguv"qh'o ki tcvkqpu(<u>19;</u>"

"Rtc{gt'ku'kp''y g''tcpn'}o cp/kcj; "qh''y g''I tgcvguv'P co g''qh'' Cmcj "}kuo "cn'c \div co; .''pc{'kv'ku''y g''I tgcv'P co g''qh''Cmcj " kugn##

"Kp"r tc { gt. "ý g"j qpqt"} $\frac{1}{2}/cj$; "qh"ý g"Nqtf "}tcdd; "cpf "ý g" nqy nkpguu"}fj kncj; "qh"ý g"ugtxcpv"} $\frac{1}{2}df$; "ku"o cpkhguvgf." cpf "ý ku"uvcvkqp"ku"cntgcf { "uvdnko g0

"Rtc{gt'ku'y g'dcppgt'qh'Kuco 0'

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Lwuv'cu'c''dcppgt 'ku'c''u{o dqn'r tc{gt'ku'ý g''u{o dqn'cpf 'ý g'' go dngo ''qh'Knco O'Lwuv'cu''c''hrci ''ku'tgur gevgf .''cpf ''kpuwnkpi ''kk'ku'' vcpvco qwpv'vq''kpuwnkpi ''c''pcvkqp''cpf ''eqvpvt{.''kpuwnkpi ''cpf '' pgi ngevkpi ''r tc{gt''cnuq''o gcpu''kpuwnkpi ''cpf ''pgi ngevkpi ''ý g'' tgnki kqp''cu''c''y j qngO'Lwuv'cu'j qkuvkpi ''ý g''hrci ''ku''c''uki p''qh'' r qnkkecn'xkxcnkv{ ''cpf ''o krksct{ ''r tqy guu.''r gthqto cpeg''qh''r tc{gt''ku'' cnuq''y g''uco gO

Rtc{gt'cpf '\jg'S wtøcp

Kp"o cp{"ecugu.''y g'S wtøcp"cpf "r tc{gt"j cxg"dggp"o gpvkqpgf" vqi gy gt"uwej "cu"kp"y ku'xgtug<

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õKpfggf'\ijqug'\yjq'tgekvg'\ijg'Dqqml\qh'Cmcj'\cpf'bckpvckp'\ijg'' rtc{gt0b<u>]:2</u>

Cpf "kp"cpqy gt "r meg."kv"uwwgu<

"â 'ãâââääaaããããââââ

õCu'hqt 'lj qug'ly j q'j qıf 'hcuv'lq'lj g'Dqqmlcpf'b ckpvckp'lj g'' rtc{gt(bj]: 3_

Uqo gvko gu. "qpg"cwtkdwg"j cu"dggp"o gpvkqpgf "hqt"r tc{gt"cpf" y g'S wtøcp. "lwuv"cu"y g'y qtf "-tgo go dtcpegø"}*f j knt*; "j cu"cnuq" dggp"o gpvkqpgf "hqt"yj g"S wtøcp<

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õKpfggf'Yg'jcxg'lgpv'fqyp'ljg'Tgokpfgt'cpf'kpfggf'Yg'' yknirtgugtxg'k0j:4_

Kp"cffkkkqp."ýg"rjkquqrj{"qh"rtc{gt"jcu"cnuq"dggp"ogpvkqpgf" cu"#go go dtcpegø<

and and and

õCpf 'b ckpvckp 'lj g'rtc{gt 'hqt 'O {'lgo go dtcpeg(b]:5_

Y j cv'ku'kpvgtguvkpi 'ku''y cv''uqo gvko gu'kpuvgcf ''qh''y g''y qtf " $\pm tc{gt\phi'} cncj$; .''y g''y qtf " $\pm gekcn\phi''$ s wt ϕcp ; 'j cu''dggp" o gpvkqpgf.''uwej ''cu''kp''y ku''xgtug<

" Baaja 'aara ãã ä

õKpfggf'\jg'fcyp'tgekkcnku'cwgpfgf'}d{'cpignu;0b]:6_"

Kťku'uckť 'ý cv'y j cv'ku'o gcpv'd{ 'ý g' \pm cy p'tgekkcnø'}*s wt \phicp'' cn/hclt*; 'ku'ý g'f cy p'r tc{gt''} *cncj ''cu/uwd*; 0'

Cr ctvhtqo ''y g'hcev''y cv''y g''tgekch'qh''y g'S wtøcp''kp''y g'hqto ''qh'' *Uwt cj ''cn/Hcvk cj* ''cpf ''cpqy gt''*uwt cj* ''ku''qpg''qh''y g''qdhki cvqt { '' r ctwi'qh''y g''r tc { gt.''r tc { gt ''ku''f kuewuugf ''kp''o quv'*uwt cj* u''}*uwy ct*; '' qh''y g'S wtøcp''kpenwf kpi ''dqyj ''y g''nqpi guv''*uwt cj* ''**Uwt cj '' cn/Dcs ct cj*. 'p04+''cpf ''y g''uj qtvguv'*uwt cj* ''**Uwt cj ''cn/Mcy vj ct*. 'p0'' 32: +0'

Rtc{gt'cpf 's kucu#

Vj g''ncy "qp"s kc ____'ku'f kuewuugf "pqv'qpn{ 'kp''Kuco 'dwi'kp''cm' f kxkpg't grki kqpu''ceeqtf kpi ''q''y j kej ''y g''r wpkuj o gpv'hqt''c" r gtuqp''y j q''ewu''uqo gdqf { øu''gct 'ku''q''ew'j ku''gct''cpf ''y g'' r gpcn{ ''qh''qpg''y j q''dt gcmu''uqo gdqf { øu''qqyj 'ku''q''dt gcmij ku'' vqqy ''cu''y gm''kp''qtf gt''q'ko r ngo gpv'l'wukeg0'Qpg''qh''y g''ecugu''qh'' s kc ''ku''y cv''y g''j cpf ''qh''c''y kgh''o wuv'dg''co r wcvgf 0'Dwi'qpn{ '' hqwt''hkpi gtu''ctg''q''dg''co r wcvgf ''cpf ''y g''r cm ''qh'j ku'j cpf '' "

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'Bâä'ãi ãã âã âä âä

õVjg'+ncegu'qh'yqtujkr'dgnqpi''q'Cncj.'uq'fq'pqv'kpxqmg'' cp{qpg'cnqpi'ykj'Cncj@]:8_

Vj ku'ku'dgecwug''cv'ý g''do g''qh'r tquvtcvkqp''}*uwlwf*; 'kp''r tc{gt.'j g'' j cu''q''r wi'ý g''r cm ''qh'j ku'j cpf ''qp''ý g''i tqwpf 0'Vj wu.'' eqpegtpkpi ''ý g''r gpcn{''hqt''ý ghv.''ý g''kuuwg''qh'r tc{gt''cpf '' r tquvtcvkqp''o wuv'dg''cmgp''kpvq''ceeqwpv'cpf ''ý g''r cm ''qh'j ku'j cpf '' uj qwrf ''pqv'dg''co r wcvgf.''uq''gxgp''c''ý kgh⁄u''tki j v'qh'y qtuj kr ''ku'' tgur gevgf #

Y qtuj kr '}-kdcf cj ; 'cpf 'i wctf kcpuj kr '}y krc{ cj ;

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Y qtuj kr "}-kdcf cj; "j cu'xcnwg'y j gp'kv'ku'pqv'uwr gthlekcn0'Kp'hcev."
kv'uj qwrf "dg"cuuqekcvgf 'y kj "eqi pk cpeg"qh'y g'j gcxgpn{ "hcf gt"
cpf 'j ku'i wctf kcpuj kr "}y krc{cj}; "cpf "cuuqekcvgf 'y kj 'j wo krkv{"
cpf 'ku'r ct wewrct 'f kuekr nkpgu0
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J cf tcv': $Crk'^* \div +'y$ cu'gpewo dgtgf ''d{ ''c''i tqwr ''qh'' j qrlgt/y cp/y qw'r tc{gt'r gthqto gtu'y j q'y gtg''npqy p'kp''j knqt{ '' wpf gt ''y g'rcdgnu. ''*O ct ks wp* ''cpf ''*Mj cy ct kl*Q: 9_''Vj g{ ''y gtg''y qug'' y j qug'hqtgj gcf u'y gtg''ecmqwugf ''qp''ceeqwpv'qh''nqpi ''cpf '' htgs wgpv'r tquvtcwqpu'kp''r tc{gt0[gv.''y g{ 'tgxqngf ''ci ckpuv':Crk''* $\div +'$ cpf ''wpuj gcy gf ''y gkt''uy qtf u'ci ckpuv'j ko 0'Y g''cnq''tgcf ''kp'' y g''*j cf kj* u''y cv'y j gp''y g''Ko co ''qh'y g''Vko g''* $\div +'$ 'y qwrf ''cr r gct.'' c''i tqwr ''qh'o qus wgu'y km''cev'ci ckpuv'j ko 0

F q''pqv'ko ci kpg''y cv''y qug''y j q''j cf ''i qpg''q''Mctdcmø''q''nkm' Ko co ''cn'J wuc{p'* \div +''y gtg''cm''pgi ngevqtu''qh''r tc{gt''}*wt kn'* c / cmj; 0'Kp''hcev.''y g{''wugf ''q''gxgp''cwgpf ''eqpi tgi cvkqpcn'' r tc{gtu#'O w÷cy k{cj ''cpf ''[c| kf ''y go ugnxgu''y gtg''o qus wg/i qgtu#

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[ gu. 'y qtuj kr. 'y j kej 'ku'cuuqekcvgf 'y kj 'ki pqtcpeg''}lcj cncj;."
tgi ctf u'nkmkpi 'y g'o quv'f gxqvgf 'y qtuj kr r gt''}\div cdlf; 'co qpi ''
o cpmkpf 'cu'y g'i tgcvguv'hqto ''qh'y qtuj kr."cpf 'i qgu'\q''nkm'\divCnk'
*\div +''qp''y g'P ki j v'qh'Rqy gt''}nc \{ncj \ 'cn's \ cft; 'y kj 'y g'cko ''qh''
uggnkpi ''pgctpguu'\q'Cmcj #'
```

P qv'qpn{ "r tc { gt "dwi'kp 'hcev'cm'qy gt "hqto u'qh'y qtuj kr 'uj qwrf " dg 'cuuqekcvgf 'y kj 'eqi pk cpeg''qh''y g'hgcf gt ''qh''twj ''cpf '' qdgf kgpeg''q'j ko 0'K'j cu''dggp''uvcvgf 'kp''y g''tcf kkqpu''y cv'I qf " j cu''o cf g" cll''qdrki cvqt { ''uq''y cv''y g''r gqr rg''eqwrf ''i cy gt " ctqwpf ''J ku''J qwug''cpf ''guvcdrkuj ''eqo o wpkecvkqp''y kj ''y g'' kphcmkdrg''Ko co u'* \div +''cv''y ku''egpvgt''qh''i cy gtkpi 0' "

P qy cf c { u.'j qy gxgt.'o kmkqpu'qh'r gqr ng'i cy gt''ctqwpf ''y g'' *Mc -dcj* ''dwv''dgecwug''y g { 'j cxg''pq'f kxkpg''ngcf gt ''y g { 'j cxg''dggp'' ur nkpvgtgf.''cpf ''kp''ur kg''qh'j cxkpi ''y ku''egpvgt ''qh''wpkv{ ''cpf '' geqpqo ke''ngxgtci g.''y g { ''ukm'uwhgt''ugvdcemu'htqo ''c''j cpf hwn'qh'' Lgy u#

[gu. 'Kuco 'ku'c''qvcrkv{ 'y j kej 'ku'kpf kxkukdrg0'Rtc{gt'y kj qw''j g'' cempqy ngf i o gpv'qh'' wctf kcpuj kr ''} $y kc{cj}$; 'ku''wpceegr vcdrg0' Rtc{gt'y kj qwi'j g'' c{o gpv'qh''/cncj 'ku'kpxcrkf 0'Kp''j g''uco g'' o cppgt. ''cro u'i kxkpi ''y kj qwi'j g''r gthqto cpeg''qh''r tc{gt''ku'' pwrkhkgf 0

Vj g''r tgegr wi'qh''Kmco ''ctg''rkng''rko du''qh''c''dqf { ''pqpg''qh'y j kej '' ecp''tgr meg''y g''qy gt0'Vj g''g{ g''ecp''pgky gt ''cuuwo g''y g''hwpevlqp'' qh'y g''gct ''pqt ''ecp''y g''gct ''cuuwo g''y g''hwpevlqp''qh'y g''j cpf 0'Kp'' Kmco ''cnuq. 'y g''r gthqto cpeg''qh''r tc{ gt ''ecppqv'tgr meg''y g'' r c{o gpv''qh'/*cmcv*0'Kp''y g''uco g''o cppgt. ''pgky gt''qh'y g''y q''ecp'' dg''uwduvkwwgf ''hqt''*lkj cf* ''cpf ''urtwi i ng''kp''y g'y c{ ''qh''I qf 0'Tcy gt.''' y g''ci i tgi cvg''qh'y go ''ku''Kmco 0''''''

Rtc{gt'cpf 'igcf gt uj kr

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Ká'ý g"r tc { gt 'ku''qpn{ ''eqpf wevgf ''d { ''ý g"f kxkpg''ngcf gtu. 'ý g" vgpvcengu''qh''qr r tguukqp''cpf ''ý g''v*c i j wi*'y qwrf ''dg''uj cwgtgf 0'Vj g" \neq f ''}hgcuv_i ''r tc { gt ''qh''Ko co ''ct/Tkf c'* \neq +''eqo o gpegf ''y kj ''uwej '' i tcpf gwt ''cpf ''o clguv{ ''ý cv'yj g''qr r tguukxg''i qxgtpo gpv'kugrh'' vtgo dngf ''cpf ''wpf gtuvqqf ''ý cv'kh''yj g{ ''cnqy gf ''y ku''r tc { gt '\q''dg'' eqo r ngvgf . ''y g'' \neq Cddcukf ''twng''y qwrf ''cnuq''eqo g'\q''cp''gpf 0'Vj wu.'' O c¢o wp''qtf gtgf ''y g''Ko co ''* \neq +''\q''dg'\cngp''kpvq''ewuvqf { ''cnqpi '' y g''y c{0'

Vjg'tgcuqp''yj{''yg''rtc{gtu''qh'Owurkou''vqfc{''ctg''kpghhgevkxg''ku'' ycv''qpn{''c''rctv''qh''yg''kplwpevkqpu''qh''yg''Swtøcp''ctg''rtcevkegf'' yjkng''qygt''rctvu''ctg''hqtiqwgp0'Kp''yjku''tgictf.''yg''Swtøcp''uvcvgu< ''

" $\hat{a}_{\tilde{a}}$ $\hat{a}_{\tilde{a}}$ $\hat{a}_{\hat{a}}$ $\hat{a}_{\hat{a}}$ $\hat{a}_{\hat{a}}$ $\hat{a}_{\hat{a}}$ $\hat{a}_{\hat{a}}$ $\hat{a}_{\hat{a}}$

õO c kp vc kp 'ij g'r t c {gt 'c pf 'i kxg'ij g'/ c mc v. 'c pf 'i dg{ 'ij g'' Cr quarg(b]::___

Vqf c{."j qy gxgt."uqo g"r gqr ng"r gthqto "r tc{gtu"dw"f q"pqv"i kxg" /cmcj 0"Vj g{"ctg"cnuq"yj qug"y j q"uc{"yj gkt"r tc{gtu"cpf "i kxg" /cmcj "dw"ceegr v"yj g"i wctf kcpuj kr "} $y kx {cj ; "qh"kphkf gnu"}$ }mwltct; 0"Kp"qyj gt"y qtf u."yj g{"j cxg"hckj "kp"I qf "dw"yj g{"f q"pqv" f gp{"yj g"wci j w0"Vj ku"ku"f ghgevkxg"hckj 0 I qf "uc{u<

õUq'qpg'yjq'fkucxqyu'tjg'Tgdgnu'}vcijwv;'cpf'jcu'hckj'kp'' Cmcj'jcu'jgnf'hcuv'tq'tjg'httoguv'jcpfng0ö<u>]:;</u>

Vj cv'ku. ''dqyi ''y g''f kucxqy cn'qh''y g''*vci j wi*'cpf 'hckji 'kp'I qf ''ctg'' tgs wktgf 0[gv.''pqy cf c{u'O wurko u'j cxg''hqti qwgp''y g'' f genetcvkqp''qh'f kucxqy cn'qh''y g''*vci j w*u''cpf 'kphkf gnu0'Uq.'' eqpegtpkpi ''y qug''y j q''wtp''vq''y g''*vci j w*.''y g''S wtøcp''uvcvgu< ''

\ddot{a}

õJ cxg'{qw'þqv'tgi ctfgf 'ý qug'ý j q'encho 'ý cv'ý g{'' dgnhgxgí Aö]; 2_

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Vjg'fgitggu'qh'yqtujkr'}-kdcfcj;

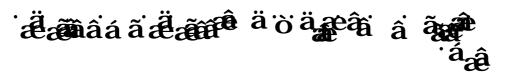
Kt'y g''cum'c''ej ktf 'y j { 'j g''nqxgu'j ku'hcy gt''cpf 'o qy gt.'j g'y km' tgr n{ 'y cv'kv'ku''dgecwug''y g{ ''dw{ 'j ko ''ecpf kgu.''enqy gu''cpf '' uj qgu#'Dwv'kh'y g''cum'cp''cf qnguegpv'y j { 'j g''nqxgu'j ku''r ctgpvu.'j g'' y km'uc { <'õK'ku''dgecwug''o { ''r ctgpvu''ctg''y g''u{o dqn'qh''o { '' kf gpvkv{ ''cpf ''r gtuqpcnkv{.''cpf ''y g{ ''ctg''nkpf ''cpf ''u{o r cy gvke''q'' o g0o

Cu'y g''ej kff ''i tqy u''qff gt.'hqpf pguu''cpf ''cr r tgekcykqp'hqt'r ctgpyu'' kpetgcugu''cpf ''j g''pq''qpi gt''y kpmi''cdqwy'uj qgu''cpf ''uwej ''y kpi u0' O cp{ ''ej kff tgp''tgi ctf ''tgpf gtkpi ''ugtxkegu''q''y gkt'r ctgpyu''cu''c'' o gcpu''q''y gkt''qy p''r gthgeykqp''cpf ''pgctpguu''}*s wt d*; ''q''Cmcj .'' cpf ''y g{ ''y kpm'dg{ qpf ''o cygtkcn'y kpi u0

Y qtuj kr "cpf "fgxqkqp" \q"I qf "ku" cnuq "hkng" y cv0Gcej "rgtuqp"

y qtuj kru'I qf 'hqt'c'r ctvlewrct'tgcuqp0'Y qtuj kr'j cu'xctkqwu'' uvci gu<

Hkt uv'ingr <'Uqo g''r gqr ng''y qtuj kr ''I qf ''vq''gzr tguu''i tcvkwyf g''vq'' J ko 'hqt''J ku'i tcegu016p''cff tguukpi ''y g''eqo o qp''r gqr ng.''y g'' S wtøcp''uvcvgu<



õNgv'ij go 'y qtuj kr'ij g'Nqtf'qh'ij ku'J qwug.'y j q'j cu'hgf'ij go '' }cpf'incxgf'ij go ;'htqo'j wpi gt.'cpf'ingewtgf'ij go 'htqo'' hgct0b]; 3_

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Vj g'hktuv'uvgr "*uvci g''qt''f gi tgg+''qh'y qtuj kr.'y j kej 'y g''uj cm'ecm' ÷y qtuj kr 'hqt''i tcvkwvf gø 'ku''gzcevn{ 'hkng''y g''ej krføu''nqxg''hqt''j ku'' r ctgpvuô kv'ku''dgecwug''qh'y gkt''r wtej cug''qh'ecpf kgu.''enqvj gu''cpf '' uj qgu''y cv'j g''nqxgu''y go #

Ugeqpf 'ingr <'C v''y ku''uvci g.''o cp''y qtuj kr u''I qf ''f wg''vq''y g'' ghgewi'cpf ''dnguukpi u''qh''y qtuj kr ''cpf ''y g{ ''r c{ ''cwgpvkqp''vq''y g'' ur ktkwcn'cpf ''tgrki kqwu''ghgewi''qh''r tc{ gt0'Cu''y g''S wtøcp'' f kuenqugu<

" äâzeaä aê ää

õKpfggf'\jg'rtc{gt'rtgxgpvu'kpfgegpekgu'cpf'\ytqpiu(b];4_ "

Vj ku''uvci g''qh'y qtuj kr ''y j kej ''y g''ecm''÷y qtuj kr 'hqt'' cf xcpego gpvø'ku''uko krct''vq''y g''nqxg''qh''y g''cf qnguegpv'hqt'j ku'' r ctgpvuô j g''r c{u'tgur gev'vq''y go ''cu''y g{ 'j cxg''dggp'j ku''wvqtu'' cpf ''vtckpgtu''cpf 'j cxg''r tqvgevgf ''j ko ''htqo ''f gxkcvkqpu''cpf '' f cpi gtu0

Vj ktf ''uvgr <''Vj ku''ku''c ''j ki j gt ''uvgr ''qt ''uvci g''qh''y qtuj kr 0'I qf ''uc{u'' vq''J cf tcv''O wuc''*'O qugu+'* $\div \epsilon$ +<

õCpf 'b ckpwckp''y g'rtc{gt'hqt'O{'tgo go dtcpeg(b];5_"

J cf tcv'O wuc''* \dot{x} +''r gthqto u''r tc{gt''pqv'dgecwug''qh''hqqf "cpf" y cvgt="kv'ku''pqv'dgecwug''qh''r tqvgevkqp''htqo "eqttwr vkqp"cpf"

y tqpi f qkpi u'gkj gt='hqt.'j g'y cu'guugpvkcm{ 'hct'htqo 'i nvwqp{" cpf 'o kuf ggf u0'J g'ku'co qpi 'y g'i tgcv'r tqr j gvu" $wnwpt \neq o$; .]; 6_"cpf 'j g'uc{u'j ku'r tc{gt'hqt'y g'ucng'qh'nqxg" hqt'I qf 'cpf 'tgo go dtcpeg'qh'J ko 0'Hqt'y g'uckpvu'qh'I qf.'nqxg" hqt'I qf 'ku'y g'dguv'tgcuqp'hqt'y qtuj kr 0 ...

[gu. 'y gtg''ctg''ej kf tgp''y j q''ukv'kp''y g''htqpv'qh''c''tgrki kqwu'' cuugo dn{ ''}*o clrku*; ''cmpi ''y kj ''y g''cf wnu''uq''y cv''y g{ ''y qwf ''dg'' dgwgt ''gpvgtvckpgf ''qt''ugtxgf ''y kj ''tghtguj o gpvu''dgwgt#'Dwi'y gtg'' ctg''cmq''kpf kxkf wcmi'y j q''ukv'cmpi ''y kj ''y g''cf wnu''uq''cu''q'' tgegkxg''o qtg''ur ktkwcn''dgpghky'htqo ''y go ''cpf ''y g{ ''ctg'' eqpegtpgf ''y kj ''gpvgtvckpo gpv''qt''tghtguj o gpvuO'Hqt''y go .''y ku'' xgt { ''hqpf pguu''qh''y g''uej qrctu'ku''c''xcrwg''kp''kugrhO ''

Hqwt vj 'ivgr <'Vj ku'uvci g.''y j kej 'ku''y g'j ki j guv'cpf ''y g'o quv'' uwr gtkqt'uvci g''qh'y qtuj kr.''ku''pqv'hqt''i tcvkwf g.''cf xcpego gpv'' cpf ''gpvj wukcuo ='tcvj gt.''kv'ku''hqt''y g''ucng''qh''pgctpguu'' } $swtd_i \hat{o} pgctpguu''vq'I qf 0$

Y g'j cxg'hqwt'xgtugu'kp''y g'S wt¢cp''y j kej 'o cng''y g'' r gthqto cpeg''qh''r tquvtcvkqp''}uwlwf; 'kpewo dgpv''qp''y g''qpg''y j q'' tgeksgu''cp{''qh''y go 0'Qpg''qh''y gug''xgtugu''o gpvkqpu''y g''uco g'' kurwg''qh''pgctpguu''}s wtd; ''q''Cmcj ''y tqwi j ''y qtuj kr 0'Vj g''S wt¢cp'' uvcvgu<

õDwv'rtquatcvg'cpf'ftcy 'pgct'}vq'Cmcj;0j;7_

Y qtuj kr 'j cu'xctkqwu'f gi tggu'cpf 'uxci gu'y j kej ''ctg'f khgtgpv'' htqo ''gcej ''qyj gt'f gr gpf kpi ''wr qp''yj g''ur ktkwcn'f gi tgg''cpf 'hckj '' qh''y g''kpf kxkf wcn0

Vj g'xkuci g'qh'y qt uj kr '}-kdcf cj ;

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"

''''''5Ko o cewncvg'ku'Jg'yjq'ecttkgf'Jku'lugtxcpv'qp'c'' lqwtpg{'d{'pkijv'htqo''yg'Ucetgf'Oquswg''q''yg'Hctyjguv'' O qus wg(b]; 8_

······Y qtuj kr 'r cxgu'y g'i tqwpf 'hqt'y g'f guegpv'qh'cpi gn⊢

"

õY g'J cxg'lıgpv'f qy p '*y g't gxgnc vlqp 'y t qwi j 'c pi gnu+'lq'' Qwt 'lıgt xcpvlö]; 9_

Y qtuj kr "ecwugu''y g''uwr r nkecwlqp''qh'o cp''vq''dg''i tcpvgf."
hqt''r tc{gt'ku'y g''eqxgpcpv''qh'I qf];:__'cpf 'y j qgxgt''hwrhkmu''
y g''eqxgpcpv''qh'I qf.'I qf 'kp''wtp''y km'cnuq''hwrhkm'j ku''
eqxgpcpv

"aääää aä ää

õCpf 'hwhhnlO { 'eqxgpcpv'ij cv'Kb c { 'hwhhnl{qwt ''
eqxgpcpvb];;____

"""Vj g'r gtuqp'y j q'f qgu'pqv'y qtuj kr 'I qf 'ku'o qtg'cdlgev' y cp'uvqpgu'cpf 'qy gt 'kpcpko cvg''qdlgevu. 'hqt''y g'S wtøcp'' tgxgcni<

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""""õCpf 'kpf ggf 'lj gt g'ct g'luqo g'qh'lj go '*uvqp gu+'lj cv'hc nl' hqt 'lj g'hgct 'qh'Cncj (b]322_

"""""'Vj ku'ku'y j kng'uqo g'r gqr ng'f q'pqv'uwdo kv'vq'vj g" Hqwpvckpj gcf "cpf "Etgcvqt"qh'vj g''vpkxgtug0'

"""Y qtuj kr 'ku'ý g'u{o dqn'qh'ý g'y kn'r qy gt'cpf 'ý g" r gtuqpcrkv{ 'qh'o cp0'Vj g'r gtuqp'y j q'ku'kp'ý g'o kf uv'qh'j ku" qy p'f guktgu'cpf 'kpuvkpevu. 'kh'j g'y qwrf 'y kuj 'cpf 'f gekf g'vq" o qxg'vqy ctf 'I qf .''ý cv'cev'ku'xcnvcdrg0'Kb'pqv.'ý g'cpi gnu" y j q'j cxg'pq'f guktg''uj cj y cj; 'cpf 'y tcý ''ij c cd; 'ctg'' r gtr gwcm{ 'kp''y g'uvcvg''qh'y qtuj kr 0

""Y qtuj kr "o cmgu"ý g"o quv"wpmpqy p"r gtuqp"qp"ý g"gctý " ý g"o quv"tgpqy pgf "r gtuqp"kp"j gcxgp0

""Y qtuj kr "kpmu"y g"uo cm kurcpf "qh"o cp "vq "y g"Ur tkpi "qh" gz kuvgpeg0

""Y qtuj kr "o gcpu"vq"vcmg"c"i ncpeg"cv"cm"qh"gzkuvgpeg"htqo " cdqxg0

""Y qtuj kr "o gcpu"y g"dnquuqo kpi "qh"y g"f qto cpv." o {uvkecn'cpf "ur kt kwcn'hcewnkgu"kp"o cpøu"dgkpi 0

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"""Y qtuj kr "ku"c"xcnwg"ces wktgf "d{ "o cp"y tqwi j "tguqnwkqp" cpf "y km"r qy gt0"KV ku"f khhgtgpv"htqo "xcnwg"cwckpgf "dgecwug" qh"hco kn{ "uvcwu"qt"dgecwug"qh"kppcvg"vcngpu"y j kej "ctg" kpdqtp"cpf "pqv"ces wktgf "d{ "ej qkeg0

""Y qtuj kr "ku''y g'tgpgy ch'qh''cmgi kcpeg''vq'I qf ''cpf ''y g'' pgy 'hquvgtkpi ''qh''ur ktkwcn'itkhg0

""Y qtuj kr 'ku''y g''dcttkgt''vq''ukp''cpf ''y g''gzvkpi vkuj gt''qh'ku'' ghhgevu0'Ki'ku''tgo go dtcpeg''cpf ''eqpuekqwupguu''qh'I qf ''y cv'' r tgxgpvu''o cp''htqo ''eqo o kvkpi ''ukp.''cpf ''pqv'o cp¢u'' mpqy ngf i g''qh''y g''ukp0

""Y qtuj kr 'ku'hknkpi ''ý g''xguugn'qh''ý g''uqwn'y ký ''ý g'' tgo go dtcpeg''qh'I qf.'y j kej 'kh''kv''ku'hkngf ''y ký ''qy gt ''ý cp'' J ko.''ku''cp''cev''qh''kplwuvkeg''vq''ý g''guugpeg''qh'j wo cpkv{0

"""Y qtuj kr 'ku'uq'xcnwcdng'hqt''y g''gcty n{ 'i tqwpf 'kp''y cv' gpvtcpeg''vq''y ku''ucetgf 'i tqwpf 'y ky qw'tkwcn'r wtkv{ 'ku''pqv'' r gto kuukdng. ''uwej ''cu''gpvtcpeg''vq''y g''o qus wg. ''y g''*Mc ÷dcj* '' cpf 'S wf u0

""Y qtuj kr "cpf "ugtxkwfg" q'I qf "ku" kugh'c" xcnwg" gxgp" kh" qwt "uwr r nkecvkqpu" cpf "tgs wguvu" ctg" pqv'i tcpvgf 0

"""Y qtuj kr "ku"gzrtguugf "dqyj "kp"'y g"uvcvg"qh"j crrkpguu"cpf "ucfpguu0"Y j gp"I qf ''i kxgu''y g"i ncf ''\kf kpi u"qh"Mcy vj ct''vq" J ku"Rtqrj gv'*U+."J g"gzj qtwi"j ko ''vq"rtc{<""

õKpfggf'Yg'Jcxg'lkxgp'{qw'cdwpfcpeg0Uq'rtc{'\q'{qwt'' Nqtf@<u>]323_</u>

I qf "cnuq"gplqkpu"rtc{gt"kp"hcekpi "fkhkewnkgu"cpf "rckphwi

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 $\tilde{o}Cpf' kcmg' tgeq wtug' kp' tc kgpeg' cpf' tc {gt (b] 324_$

Rtc{gtu'tj cv't grlgxg'f ltHewnv{

Y j gpgxgt'y g"gpeqwpvgt'f kthkewn{ ''qt'y cpv'vq''cunihqt'' uqo gyj kpi.''Kunco ''gplqkpu''wu''vq''r tc{ ''vq'I qf ''r ctvkewnctn{ 'hqt''y g'' tgo qxcn'qh''qwt'f kthkewn{ ''qt''y g''i tcpvkpi ''qh''qwt''tgs wguv0'Cv''y ku'' r qkpv.''kv'ku''crrtqrtkcvg''vq''o gpvkqp''qpg''gzcorng''qh''y gug''r tc{gtu< ''

Vjg'rtc{gt'qhlLc-hct'cv/Vc{{ct

 $\label{eq:linear_line$

F wtkpi ''y g''Dcwng''qh''O wøxcj .''j g''nquv'dqvj ''j ku'j cpf u''kp''y g''y c{ '' qh'I qf ''cpf ''kp''nkgw'qh'j cpf u''I qf ''i cxg''j ko ''w q''y kpi u''kp'' r ctcf kug0J g.''y gtghqtg.''dgeco g''y gm/npqy p''cu'' $c / c{{ct''}y g''}$ y kpi gf ''qpg; 0

Y j gp''Lc-hct''y gpv''q''O gf kpc'htqo ''Cd{uukpkc.''y g''Rtqr j gv'*U+'' uckf <õY qwrf ''{qw'nkng''o g''q''qhhgt''{qw''c''r tgekqwu''i khvAö''Vj g'' r gqr ng'ko ci kpgf ''y cv''y g''Rtqr j gv'*U+''y qwrf ''i kxg''j ko ''c''egtvckp'' co qwpv'qh'i qrf ''qt''ukrxgt''cpf ''y wu''y g{ ''y tqpi gf 'hqty ctf ''kp'' qtf gt''q''ugg''y g''Rtqr j gv/u'*U+''i khvO'Dw''y g''Rtqr j gv'*U+''uckf <'õK' uj cm'vgcej ''{qw'c''r tc{gt''cu''c''i khv'y j kej .''kh''{qw'r gthqto ''kv'f ckn{.'' ks'y kn'dg''dgvgt 'hqt''{qw'y cp''y g''y j qrg''y qtrf ''cpf ''y j cv'ku''kp''kx.'' cpf ''kh''{qw'r gthqto ''ks''gxgt{f c{.''gxgt{ ''Htkf c{.''gxgt{ ''o qpy ''qt'' gxgt{ ''{gct.''I qf ''y kn'hqti kxg''{qwt''ukpu''f wtkpi ''y g''kpvgtxcn'qh'' y g''y q''r tc{gtu'*gxgp''kh'ks'ku''cp''kpvgtxcn'qh''qpg''{gct+Q325_''

Ko co "c / cf ks "* \div +"uckf <"õY j gpgxgt"{qw'j cxg"c"r tqdngo "qt" uqo gyj kpi "vq"cum"uwr r nkecvg"chvgt"uc{kpi "yj g"r tc{gt"qh"Lc+hct" *c / c{{ct+"} cncj "lc+ct; "cpf "kv'y kn'dg"i tcpvgf."I qf "y knkpi (6"

Vj ku'r tc{gt'j cu'dggp''pcttcvgf 'y ký 'tgrkcdrg''Uvppk'cpf 'Uj kæj " ej ckpu''qh''tcpuo kuukqp''}*kupcf*;.''cpf 'kv'j cu''ces wktgf ''y g''pco g.'' Knukt "cn'C \div co "cpf "Mkdt k{ {cj "cn'C o ct $0326_{}$

Vj g''o cppgt''qh''r gthqto kpi ''y ku''r tc{gt''j cu''dggp''tgeqtf gf ''kp''y g'' hktuv'r ctv''qh'' $Ochc \cdot k$ ''cn' Lkpcp]327_''wpf gt''y g''f ggf u''} $c \not \Rightarrow c\eta$ ''hqt'' Htlf c{ ''chvgt''y g''r tc{gtu''qh''y g''kphenkdng''Ko co u''* \dot{c} +0

Qh'eqwtug. 'vj ku'r tc{gt'ku'qpg''qh''y g'vgpu''qh'tgeqo o gpf gf " }o wac cdd; 'r tc{gtu'hqt''y g'tgo qxcn'qh'f khkewnkgu'y j kej 'j cxg'' dggp''tcpuo kwgf 0Tgegpw{.'c''dqqm'gpvkngf.''*Pcoc|/jc/{g'' Owac cdd*''}Tgeqo o gpf gf 'Rtc{gtu; .'j cu'dggp'y tkwgp.'y j kej '' j cu'o gpvkqpgf 'cr r tqzko cvgn{ '572'tgeqo o gpf gf 'r tc{gtu'y kj '' y gkt 'r ctvkewct 'pco gu'cpf 'o cppgt''qh'r gthqto cpeg0'Vj ku'' f kxgtukv{ ''kugh''cwguu''vq''y g''ko r qtvcpeg''qh'r tc{gt.''cpf ''c''r tc{gt'' hqt''gxgt{ ''qeecukqp''j cu'dggp'tgeqtf gf 0

Vjg'icpevkv{ 'qh'rtc{gt

Vj g''ucpevkv{ ''qh''r tc{gt''ku''uwej ''y cv''kv'j cu''dggp''tgeqo o gpf gf '' y cv''y g''vko g''hqt''y g''gzgewvkqp''qh''uqo g''f ggf u''uwej ''cu''o cmkpi ''c'' xqy ''}*s cuco*; ''qt''i kxkpi ''yuvko qp{''}*uj cj cf cj*; ''uj qwrf ''dg''chvgt'' y g''tgekkcvkqp''qh''r tc{gtu0

Kp"Uwt cj "cnO c \$f\$ cj "7328." y g"S wt \$cp"uvc vgu<"

"

õQ'{qw'y j q'j cxg'hckj #'Vj g'y kpguu'dgvy ggp '{qw.'y j gp'' fgcy 'crrtqcej gu'cp { '4h'{qw.'y j kg'b cmpi 'c'dgs wgux.'lj cm'' dg'vy q'hckt'b gp 'htqo 'co qpi '{qwtugnxguô qt'vy q'htqo 'co qpi '' qy gtu [328_'kh'{qw'ctg'lqwtpg{kpi 'kp 'ij g'hcpf 'cpf 'ij g'' chnkevkqp '4h'f gcvj 'xkuku'{qw0[qw'lj cmlf gvckp 'ij g'iy q'4h'ij go '' chgt 'rtc{gt.'cpf.'kh'{qw'j cxg'cp { 'f qwdv.'ij g{ 'lj cmlxqy 'd{ '' Cmcj . '÷Y g'y kmlp qv'lgmlkv'hqt 'cp { 'l ckp.'gxgp 'kh'kv'y gt g'c'' tgnc vkxg.'pqt 'y kmly g'eqpegcn'ij g'iyguko qp { '4h'Cmcj .'hqt 'ij gp'' y g'y qwnf 'kpf ggf 'dg'co qpi 'ij g'ikppgt uø05]329_

KYku'y kf gn{ 'r tcevkegf 'pqy cf c{ u'y cv'qcy / vcmkpi 'egtgo qpkgu''

ctg'f qpg'kp''ý g'r tgugpeg''qh''ý g'S wt¢p''cpf ''d{ ''r wwkpi ''ý g'j cpf '' qp''ý g'S wt¢p.''dw''ý g'S wt¢p''kugh'kp''ý ku'tgi ctf ''uvcvgu''ý cv'' vcmkpi ''cp''qcyj ''uj qwrf ''dg''f qpg''chvgt''ý g''r gthqto cpeg''qh''r tc{gt#

Vjg'Wpkxgtucnkv{ 'qh'Rtc{gt

Dqyj 'kp''equo ke''etgcvkqp'' $chct kpguj /g''vcmy kpk_i$ "cpf 'kp'' tgrki kqwun{ 'hgi cn'r tgegr wu''} $f cuwt cv'g''vcuj tk k_i$.'I qf 'j cu'' cr r nkgf 'y g''nqhvkguv'cpf ''o quv'r gthgev'r tqi tco u0'Hqt ''gzco r ng.'kp'' y g''etgcvkqp''qh''o qyj gtøu''o km''J g''j cu''ceewo wrcvgf ''cm'y g'' pwtkgpvu.''y j kej ''ctg''pggf gf ''d{ ''y g''kphcpv0'

```
Ka'y g'\cmg''c''i mpeg''cv'y g''etgc\kqp''qh'o cp.''y g''tgcnk g''y cv''
y j cvgxgt''ku''r tgugpv''kp''pcwtg''j cu''cmq''dggp''r megf ''kp''o cp0
```

Kh'ý gtg'ku'ý g'uqwpf 'qh'ý wpf gt'kp''pcwtg.'ý gtg'ku'ý g'xqkeg'' *uj qwkpi +'kp''o cp0

```
Ka'ý gtg"ctg"r nopvu"cpf "j gtdu"kp"powtg."ý gtg"ku'i tqy ý "qh'j okt"
qp"o cp0
```

```
Ka'ý gtg"ctg'tkxgtu'kp"pcwtg."ý gtg"ctg'xgkpu'dqý "neti g"epf"uo em"
kp"o ep0'
```

```
Ka'y gtg''ctg''htguj "cpf ''ucnv{ ''y cvgtu''kp''pcwvtg.''y gtg''ctg''ucnv{ ''vgctu''
cpf ''htguj ''ucnkxc''kp''o cp0
```

```
Ka'ý gtg"ctg'o cp{ 'o kpgtcnu'kp"pcwtg."ý gtg"ctg"cnuq"cdwpf cpv"
vcngpvu'hcvgpv'kp"o cp0
```

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Vj gtg'ku''c''r qgo ''cwthdwygf ''vq''J cf tcv''-Crk'*-x+'y j kej ''uvcvgu< ''
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Q'o cp#[ qw'ko ci kpg'\j c\'{ qw'eqpukwwg'c 'uo cm'dqf { "y j gt g'kp"
hcev'c 'dki 'y qt ıf 'ku'r ncegf 'kp''{ qw0'
```

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Rtc{gt'ku''cnuq''c''f kxkpg''j cpf ky qtm'kp''y j kej 'I qf''j cu''uqo gj qy ''
r ncegf ''cm'xcnugu0
```

```
Y j kej 'r gthgevkqp'ku'kv'ý cv'ku'xcnvcdng'vq'o cp''cpf 'ecppqv'dg''
hqwpf 'kp'r tc{gtA
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```
Tgo go dtcpeg''qh'I qf 'ku'c'xcnvg''cpf 'kv'ku''y g''qpn{ 'o gcpu''qh''
i kxkpi ''tcps vkrkv{ ''vq''y g''j gctv.''cpf 'r tc{gt''ku''c''tgo go dtcpeg''qh''
I qfô õCncj w''cndct ö''}Cncj ''ku'i tgcvgt; 0
```

```
T go go dtcpeg"qh'ý g'F c{ "qh'T guwttgevkqp"ku'c"xcnwg"cpf "kv" r tgxgpvu'ý g"eqo o kuukqp"qh'ukp"cpf "eqttwr vkqp."cpf "r tc{gt"ku" tgo go dgtkpi 'ý g'õ[ cy o "cf/f kpö"}F c{ "qh'Lwf i o gpv 032:__"
```

```
Vq"dg"kp"yj g"tcpmu"qh"yj g"r tqr j gwu. "yj g"o ctv{ tu"cpf "yj g"
tki j vgqwu"ku"c"xcnwg. "cpf "kp"r tc { gt "y g"dguggej "I qf "hqt "wu"vq"dg"
kp"yj g"õ kt c "cmcf j kpc"cp \div o vc "\div m{ j ko ö"} yj g"r cyj "qh"yj qug"
y j qo "[ qw"j cxg"dnguugf ; 0<u>32;</u>_____
```

```
Y g'f genetg''qwt ''cxgtukqp''cpf ''f kucxqy cn''}dct c \phi cj; ''qh''y g'' v{tcpw''cpf ''f gxkcpw''d{ ''uc{kpi <\delta i j c{tk\phi n o ci j wdk' + cm{j ko "'}} y c'nc\phi / cnkpo''\deltauwej ''cu''j cxg''pqv''kpewtgf ''[ qwt''y tcy'.''pqt''ctg'' cutc{<math>\delta Q332_{}''
```

```
Lwurkeg''y j kej 'ku''y g'hqtgo quv'qh''y g''xcnwgu''j cu''dggp''eqpukf gtgf " c''pgeguuct { ''r tgtgs wkukwg''hqt''y g''ngcf gt''qh''y g''eqpi tgi cwqp'' \frac{1}{2} ko co ''cn'lco c \div j \frac{1}{2} 0
```

```
Hqmqy kpi ''y g''gcf gt ''qh''y g''eqpi tgi cvkqp''kp''r tc{gt''ku''c''xcnvcdrg''
uqekcn'r tkpekr ng. ''y j kej ''uvkr wncvgu''y cv'kpuvgcf ''qh''qduvkpce{''cpf ''
kpf kxkf wcnkuo .''y g''j cxg''vq''hqmqy ''c''lwuv'ngcf gt0
```

```
Koʻ'ugngevkpi ''y g''eqpi tgi cvkqpcn'ngcf gt.''s wcnkvkgu''y j kej ''ctg''
xcnwgf ''ctg''cny c{u''cmgp''kpvq''ceeqwpv<''y g''o quv''lwuv.''y g''o quv''
mpqy ngf i gcdng.''y g''o quv''gnqs wgpv.''gve0
```

```
Ucpf kpi 'y j kg'hcekpi 'y g''s kdrc j ''ecmu'\q''o kpf ''o cp{ ''xcnvgu0'
O geec'ku'y g''qt wtg''ukg''qh'Dkrcn='y g''r rceg''qh''ucetkheg''qh''
Kuo c-kn'*Kuj o cgn+'*\div =''y g''dkty'r rceg''qh'-Cnk'kdp'Cdk'' cnkd''*\div =''
y g''dcug''qh'y g''wr tkukpi ''qh''cn'O cj f k'*\div =''y g''yuvkpi ''i tqwpf ''qh''
Katcj ko ''*Cdtcj co +'*\div =''cpf ''y g''r rceg''qh'y qtuj kr ''qh''cm''
r tqr j gw''cpf ''uckpw0
```

```
Gxgt { y kpi 'ku'o qxgo gpv'kp'r tc { gtô gxgt { 'f c { 'cpf ''pki j v='kp''
dqy kpi ''f qy p''}t wmv; .''r tquvtcvkqp''}uwlwf; ''cpf ''uvcpf kpi ''
uvtcki j v''}s k{ co; =''cpf ''o qxgo gpv'kp''i qkpi ''vq''y g''o qus wg''cpf ''
y g''r rceg''qh''r tc { gt0'Vj gtghqtg.''f q''pqv'dg''uvcvke.''ukrgpv'cpf ''
uqrkxct { 0Tcy gt.''cny c { u''uvtkxg''cpf ''o qxg=''qh''eqwtug.''hqt''y g''
```

```
ucmg"cpf "kp"'y g"y c{ "qh"I qf 0
```

Kp"r tc{gt'ý g"ur ktk/cpf "uqwi'qh"o cp"ku'r wti gf 0"Rtc{gt"tgo qxgu" y g"f wuv'qh"r tkf g"cpf "xcpkx{ "dgecwug"gxgt{ "pki j v'cpf "f c{ "hqt" o cp{ '\ko gu"o cp"r megu"y g"o quv'uwdrko g"r ctv"qh"j ku"dqf { " *hqtgj gcf +"qp"y g"i tqwpf."cpf "r tquvtcvkqp"qp"y g"gcty "ku"dgwgt" y cp"qp"c"uvqpg"dgecwug"nqy rkpguu"ku'r mekpi "qpgugrh"qp"y g" i tqwpf 0'

Rtquvtcvg"qp"'y g'i tqwpf "cpf "y j cv'i tqy u"kp"'kv'r tqxkf gf "y cv'kv'ku" pqv"gf kdng"uq"'y cv"{qw'y qwrf "pqv'y kpm"qh"{qwt "uvqo cej #

```
Rtquvtcvg"qp"r wtg"gctvj "hqt"vtcxgtukpi "ko r wtg"r cvj u'y km'pqv"
ngcf "vq"r wtkv{ "cpf "vj g"Hqwpvckpj gcf "qh"Rwtkvkgu#
```

Et { kpi 'hqt 'hgct''qh'I qf 'ku'c'xcnwg. "cpf ''y g'S wtøcp''j cu''r tckugf '' r tquvtcvkqp"ceeqo r cpkgf ''d { ''y ggr kpi $< \tilde{o} *Vj g \{ ''y qwrf 'hcm'f qy p + '' y ggr kpi ''kp''r t quvtcvkqp (b`] 333_$

 $\begin{aligned} &\operatorname{Rtc} \{ \operatorname{gt'ku'c'f kx kpg''eqf g''qh''hkhg''y j kej ''j cu''dggp''r tguetkdgf 'hqt''wu'' \\ &\operatorname{htqo} ''y g''o qo gpv''qh''dktyj ''vm''y g''r qkpv''qh''f gcyj 0'Y j gp''c''dcd \{ '' \\ &\operatorname{ku''dqtp.''tgekkg''y g''cfj cp''cpf ''ks co cj ''kp''j ku''tki j v'cpf ''nghv''gctu.'' \\ &\operatorname{tgur gevkxgn} ..'cu''kv''ku''cp''cf o qpkkqp''hqt''r tc \{ gt''*y j gp''j g'' tqy u'' \\ &\operatorname{wr} + d' c \{ \{ c'' \neq n \not \phi / cn c j \ \ddot{o}'' \widetilde{o} Eq o g'' q'' r tc \{ gt \ddot{o} 0'' \\ '' \end{aligned}$

 $\begin{array}{l} Cv'y g'' & g''qh'j ku'f gcy . "{qw'cnq''dwt {'j ko 'y ky 'y g'' r gthqto cpeg''qh'y g''ortc {gt'hqt''y g''f gcf ö''} cncj ''cn'o c {{ky 0' Vj tqwi j qwt''qwt''hhg''{qw''uj qwrf ''cny c {u''dg''kp''c''ucvg''qh'' y qtuj kr r kpi ''cpf ''i qtkh{kpi ''I qf <math>< \widetilde{o} Cpf 'y qtuj kr '{qw''Nqtf ''wp kr'' egt wc kp v{ ''*qt 'f gcy +'eqo gu''y '{qwb}]334_'' } \end{array}$

```
Rtc{gt'ku'o cpøu'wpkqp'y ky ''pcwtg0'Kp''f gvgto kpkpi ''y g''
r tguetkdgf ''vo g''hqt''r tc{gtu''r ctvkewrctn{ ''y g''f cy p''} wd; ''cpf''
pqqp''} wjt; ''r tc{gtu.''{qw'j cxg''vq''nqm'cv'y j gtg''y g''uwp''ku='kp''
qtf gt''vq''f gvgto kpg''y g''f ktgevkqp''qh''y g''s kdrcj.''y g''j cxg''vq''nqm''
cv'y g''uvctu='kp''r gthqto kpi ''y g'tgeqo o gpf gf ''r tc{gtu''qp''
cwur kekqwu''f c{u.''{qw'j cxg''vq''o qpkvqt''y g''o qxgo gpv''qh'y g''
o qqp'**kp''qtf gt''vq''f gvgto kpg''y g''gzcev'f c{+0'Kp''vcmkpi ''c''dcy ''
cpf ''r gthqto kpi ''cdnwkqp.''{qw'j cxg''vq''wkrk{ g''y cvgt.''cpf ''kp'''
r gthqto kpi ''cdnwkqp.''{qw'j cxg''vq''wkrk{ g''y cvgt.''cpf ''kp'''
r gthqto kpi ''r tquvtcvkqp''}uwlwf; ''cpf ''ft{''cdnwkqp''}wc{co o wo;.''
{qw''j cxg''vq''qwej ''y g''i tqwpf 0'
```

Y j kej "Y kug'F guki pgt"j cu'f guki pgf 'ý ku't grcvkqp"qh'ý g'r tc{gt" y kj 'ý g'uwp.'ý g'o qqp.'ý g'uvctu.'y cvgt."cpf 'ý g'i tqwpf A "

Kp"qpg"y c{"qt"cpqy gt."y g"qy gt"qdrki cvqt{"tgrki kqwu"cew"ctg" cnuq"r tgugpv"kp"y g"r tc{gt<

Nkmg''ý g''r gtuqp'hcuvkpi .''ý g''r gtuqp''r tc{kpi 'j cu'pq''tki j v'vq''gcv.'' f tkpm'cpf ''gpi ci g''kp''ugz vcn'cevkxkv{0'

"r gthqto kpi"

*j cf*ô yj g'i tgcvgt"*lkj cf*"}*lkj cf "cn/cmdct*; 'y j kej "ku"eqo dcv'y ky " yj g'ugnh"}*lkj cf "cp/pchu*; 0

Rtc{gt'ku'ksugnh'ý g'j ki j guv'hqto "qh'ý g''gplqkpo gpv'qh'i qqf" }co t "dkøn' o $c \neq wh$ "cpf 'ý g'hqtdkf f cpeg''qh''gxkn''} $pcj \{k'' \neq pk$ øn' o wpmct;

С

õQ'Nqtf#Kjcxg'lgwngf'rctv'qh'b {'fguegpfcpw'kp'c'dcttgp'' xcng{.'d{'[qwt'lucetgf'Jqwug.'qwt'Nqtf.'ijcv'ijg{'bc{'' ockpvckp'ijg'rtc{gt@]335_

Y j cv'ku'kpvgtguvkpi 'ku'ý cv'J cf tcv'Kdtcj ko '* \div c+'f qgu''pqv'uc{ $\langle \delta K \rangle$ o cf g'*j kltcj* 'kp''qtf gt''vq''r gthqto " *cll*''r kri tko ci g@''Kpuvgcf.'j g'' uc{u $\langle \delta U \rangle$ {kpi ''y g''r tc{gt''y cu''o {''cko ''kp''

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$\tilde{o}Rwv'qp' \{qwt'cfqtpogpv'qp'gxgt\{'qeeculap'qhttc{gt} 0^{336}$

Vj cv'ku. 'r wv'qp"{ qwt "engcp"cpf 'r gthwo gf 'i cto gpwu'y j gp'i qkpi " vq''yj g''o qus wg0

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Cv'y g'' ko g''qh'r tc{gt.'y qo gp''ctg''cnuq''gplqkpgf ''vq'y gct''y gkt'' lgy gnt{''y ky ''y j kej ''y g{''cf qtp''y go ugnxgu<math>0337_{-}
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Gxgp''y g''kuwg''qh''engcpkpi ''y g''ygy ''ku'i kxgp''cwgpvlqp.''cpf ''y g''
tgcf ''kp''y g''tcf kkqpu''y cv'r tc{kpi ''y kj ''engcpgf ''}o kuy cm ''ygy ''
ku''gs wkxcngpv''q''r tc{kpi '92''vko gu''y kj qw''o kuy cmQ338_''Cpf ''k''
j cu''dggp''uckf <'õF q''pqv'gcv''qpkqp''cpf ''i ctnle''dghqtg'i qkpi ''q''y g''
o qus wgö]339_''uq''cu''pqv''q''cppq{ ''qy gtu''y kj ''y g''qf qt''qh''{qwt''
o qwj ''cpf ''f tkxg''y g''r gqr ng''cy c{0
```

Kp"cp{"ecug."ý ku"ku"ý g"r tc{gt"qh"Kmco."dw"qwt"r tc{gt"ku"ý g" r tc{gt"y j kej "y g"f q"pqv"r gthqto."qt"r gthqto "ectgnguun{"cpf" kpeqttgevn{."qt"r gthqto "y kj qw"dgkpi "kp"eqpi tgi cvkqp."qt" y j kej "y g"r gthqto "cv"ku"ncuv"o qo gpvu#

Vj g''o qus wgu''y j qug''ewuvqf kcpu''y gtg''qpeg''Kltcj ko .''Kuo c-khl'cpf " \ cmctk{ {c''*\ gej ctkcj +''* \div +.]33: _''cpf ''y g''r rceg''y j gtg''y g'' o qy gt''qh''O ct {co ''*O ct {+'j cf ''o cf g''c'xqy ''kp''cumkpi ''I qf ''q'' ngv'j gt ''ej kff ''dg''ku''ewuvqf kcp.]33; _''dgeqo g''r rcegu''y j qug'' ewuvqf kcpu''kp''o quv''ecugu''ctg''f kucdrgf .''ci gf .''ukem{ .'' wpgf wecvgf .''cpf ''uqo gvko gu''gxgp''dcf ''r gqr ng#'Y j {''ku''kv''y cv'' dgkpi ''c''ewuvqf kcp''qh''y g''j qn{ ''uj tkpg''qh''Ko co ''ct/Tkf c''* \div +''ku''cp'' j qpqt.''dwv''dgkpi ''c''ewuvqf kcp''qh''y g''J qwug''qh''I qf ''ku''pqvA#

Y j { "uj qwrf "qwt "o qus wgu"dg"uwej "vj cv"cp { qpg"y j q "eqo gu" kpukf g"y km"i gv"ucf ."o grcpej qnke"cpf "kpf qrgpvA"Ku"vj g"o qus wg"c" j qwug"qh"o qwtpkpi A'Cp"cuugo dn{ "eqpxgpgf "vq"r tc { "hqt"vj g" f gcf "cpf "qp"y j qug"f qqt"drcem"dcppgtu"uj qwrf "dg"j wpi A'Qh" eqwtug."vj cpmu"dg"vq"I qf ."kp"tgegpv"{ gctu"c"o qxgo gpv"j cu"dggp" kpkkcvgf "kp"vj g"o qus vgu"*kp"Kcp+"cpf "o quv"qh"vj go "ctg"pqy " gs vkr r gf "y ky "hkdtctkgu"cpf "r tqxkf g"uwej "qvj gt"ugtxkeg/qtkgpvgf " cevkxkkgu"cu"kpvgtguv/htgg"nqcp"hwpf u0

Y j cv'c''dgcwkhwn'j cf kj 'kv'ku.'y j kej ''uvcvgu<õQp''y g''F c{ ''qh'' Tguwttgevkqp.''y gug''y tgg''uj cm'eqo r nckp''ci ckpuv''y g''r gqr ng<'' Vj g'' $\div nko$ ''}uej qnct; ''vq''y j qo ''y g''r gqr ng''y qwf ''pqv'tghgt=''y g'' S wt¢cp''y j kej ''y cu''kp''y g''j qwug''dw''y cu''pqv'tgcf=''cpf ''y g'' o qus wg''vq''y j kej ''y g''r gqr ng''r ckf ''pq''cwgpvkqpQ<u>342_'</u>'' Vj gtg''ctg''o cp{ ''y kpi ''y cv'ecp''dg''uckf ''cdqwi'y g''o qus wg''cpf '' tgegpvn{.''c''dqqm'gpvkxgf.''*Uto c/{g'O cullf* ''}Vj g''Xkuci g''qh''y g'' O qus wg; ''y cv'gzr nckpu''y g''uvcwu''qh''o qus wg''kp''O wurko ''uqekgv{ '' j cu''dggp''r wdrkuj gf 0'

P gxgtyj grguu. 'kp''c''pwuj gm''y g''o qus wg''f wtkpi ''y g''gctn{ ''r gtkqf '' qh'Kuco ''y cu''y g''xgpwg'O wurko u''q''i cy gt''q''o crg''f gekukqpu'' cpf ''eqpf wev'eqpuwncykqpu. 'kp''ces wktkpi ''mpqy rgf i g''cpf '' kphqto cykqp='kx''y cu''y g''dcug''hqt''eqo dcycpwi'cpf ''utwi i rgtu''qp'' y g''Rcyj ''}*o wlcj lf wp*; ='y g''r rceg''q''cwgpf ''q''y g''pggf u''qh''y g'' r qqt''cpf ''ukem=''cpf ''y g''dcug''hqt''tkukpi ''wr ''ci ckpuv''v{ tcppkecn'' i qxgtpo gpyu''cpf ''f grlxgtkpi ''hgt{ ''ugto qpu''ci ckpuv''y go 0 ''

Ki'j cu'dggp''y ku'uco g'uwdnko g'uvcwu''qh''y g''o qus wg''y cv'' r tqo r vgf 'O wurko u''y tqwi j qwi'j kuvqt { ''vq''cr r n{ ''y g''dguv'' ctej kgewtcn'f guki pu''kp''dwkrf kpi ''y go ''cpf ''vq''gpf qy ''j wi g'' co qwpwu''qh'y gcny ''hqt''y gkt''cf o kpkuvtcvkqp''uq''y cv'y g{ ''eqwrf '' mggr ''qp''hrqwtkuj kpi ''cpf ''y tkxkpi 0'

"

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<u>]3_</u>"*Uwt cj "cf j /F j ct k[cv*'73*4*80Kp"'y ku'xqnwo g."y g"vtcpurcvkqp" qh'S wtøcpke'r cuuci gu'ku''cf cr vgf "htqo "Uc{{kf "÷Crk'S wrk'S ctcøk" *Vj g'S wtøcp 'y kj "c "Rj t cug/d{/Rj t cug'Gpi rkuj "Vt cpurc vkqp*" *Nqpf qp<'Kurco ke "Eqngi g"hqt''Cf xcpegf "Uwvf kgu''Rtguu."4226+0' }VtcpuQ

 $\label{eq:lasses} \begin{array}{l} \underline{|4_{u}''Uwtcj|''cn'Dcsctcj|''4<\!\!35: <\!\!\tilde{o}Vjg''dcrvkuo|''qh'Cncj|''} kdijcv'' \\ Cncj; .''cpf ''yjq''dcrvk/gu''dgwgt''vjcp''CncjA''Cpf ''J ko''fq''yg'' \\ yqtujkr0; \end{array}$

15_''S wguwkqp<"Ki'chłgevkqp''vq''qpgøu''ej kf 'ku'kpf ggf 'r ctv'qh''qpgøu'' pcwtcn'f kur qukskqp"}*lkt cj*;.''j qy 'ku''kv'y cv'kp''uqo g''gr qej u''uwej '' cu''y g'Rtg/Kurco ke''Rgtkqf ''qt''Ci g''qh'K pqtcpeg''}*(cy o '' cn/lcj ktk[{cj*; ''uqo g''r gqr ng''wugf ''vq''dwt { ''y gkt 'f cwi j vgtu''cnkxgA T gr n{ <'Vj g''kuuwgu''r gtvckpkpi ''vq''pcwtcn'f kur qukskqp''}*lkt cj*; ''ctg'' pwo gtqwu0'Lwuv''cu''chłgevkqp''hqt''qpgøu''g hhur tkpi ''ku''r ctv'qh''qwt'' pcwtcn'f kur qukskqp.''tgi ctf 'hqt''qpgøu''j qpqt''ku''cnuq''c''r ctv'qh''k0' Vj g''Ctcdu'f wtkpi ''y g''r tg/Kurco ke''r gtkqf ''wugf ''vq''tgi ctf ''y gkt'' f cwi j vgtu''cu''c''uqwteg''qh'uj co g''cpf ''ki pqo kp{ ''cu''y g{ ''y qwf ''dg'' vcngp''ecr vkxg''f wtkpi ''y ctu''cpf ''j cf ''pq''r tqf wevkxg''r qy gt''cpf '' geqpqo ke"gctpkpi 0"Vj wu."kp"c"dkf "vq"r tgugtxg'vj gkt"j qpqt"cpf" f ki pkv{."vj g{ 'wugf "vq"f kur qug"qh'vj gkt"f cwi j vgtu0"Nqxg"hqt" y gcnj "cpf "nqxg"hqt"hkp"ctg"dqyj "tgncvgf "vq"vj g"pcwtcn" f kur qukskqp"}*lkt k*; 0"Uqo g"r gqr ng"ucetkhkeg"vj gkt "hx.gu"hqt"y gcnj " y j kng"qvj gtu"f q"vj g"qr r quksg."kQ0'ucetkhkeg"y gcnj "hqt"vj g"ucmg" qh'vj gkt "hx.gu0"Vj gtghqtg. "ucetkhkelpi "qpgøu"f cwi j vgt "hqt"vj g"ucmg" qh'r tgugtxkpi "qpgøu"j qpqt"ku"pqv"kpeqpukuvgpv"y kyj "vj g"pcwtcn" f kur qukskqp"qh"o cp."cnj qwi j "kv"o ki j v'dg"c"tguwnv"qh"ki pqtcpeg" qt"eqphwukqp0'

]6_'O cy my k<Icmn'cf/F kp''ct/T wo k'*3429/3495+'y cu''y g'' i tgcvguv'o {uvke''r qgv'kp''y g''Hctuk''ncpi wci g''cpf 'hqwpf gt''qh''y g'' O cy my k{ {cj ''qtf gt''qh''f gtxkuj gu'*õVj g''Y j ktnkpi 'F gtxkuj guö+0' J g''ku''hco qwu'hqt''j ku'h{tkeu''cpf ''hqt''j ku''f kf cevke''gr ke.''*Ur kt kwc n' Eqwr ngul*0'}VtcpuQ

]7_'Vj g''cddtgxkvkqp.''õ \div ö''ucpf u'hqt''ý g''Ctcdke''kpxqecvkxg'' r j tcug.'' \div m{*j ku/ucmo*.'' \div m{*j ko wu/ucmo*.''qt'' \div m{*j cu/ucmo*" } o c{ ''r gceg''dg''wr qp''j ko hý go lj gt; .''y j kej 'ku''wugf ''chvgt''ý g'' pco gu''qh''ý g''r tqr j gvu.''cpi gnu. 'Ko co u'htqo ''ý g''Rtqr j gv⁄u'' r tqi gp{.''cpf ''uckpvu'* \div +0'}VtcpuQ

[8_'Vj g'\gto ''*xi j w*'cr r ngu'\q''cp{ 'kf qn ''qdlgev.''qt 'kpf kxkf vcn'' y cv'r tgxgpwl'o gp'htqo ''f qkpi ''y j cv'ku'i qqf .''cpf ''ngcf u''y go '' cutc{0Vj g'\gto ''j cu''dggp''wugf ''gki j v'\ko gu'kp''y g''S wt¢cp0'Rtkqt'' q''Kmco .''*xi j wi*'j cf ''dggp''y g''pco g''qh'y g''qpg''qh''y g''kf qmi'qh'' y g''S wtc{uj ''tkdg0'Vj ku''pco g''ku''wugf ''cmq''q''o gcp''y g''Ucvcp0'' O qtgqxgt.''y g''ygto ''ku''wugf ''q''kpf kecvg''qpg'y j q''tgdgm''ci ckpuv'' mhv{ ''xcmvgu.''qt'y j q''wtr cuugu''cmi'dqvpf u''kp''j ku''f gur q\kuo ''cpf ''
 (tcpp{ ''cpf ''emcko u''y g''r tgtqi c\kxgu''qh''f kxkpkv{ ''hqt''j ko ught'' y j g''gt gt''ko r nkekn{0'} VtcpuQ

<u>19</u> 'Vj cv'kı.'I qf 'uwdlgevgf 'y g''*v i j w*u''vq''y g''ny guv'gdd''qh'' j wo krkcvkqp''cpf ''cdlgevpguu0'} VtcpuQ

]:_"Unt cj "cn' 0 wm/89<520

];_"Uwtcj "cn'Y csk÷cj "78<920

<u>]32_</u>"Untcj "cn/Y csk÷cj "78<870

<u>]33_</u>"Uwt*cj* "*cw*/Uc*dcø*"56<0

<u>]34_</u>'J cftcv^{*}Vj g'Ctcdke''y qtf ''*J cftcv*'ku''wugf ''cu''c''tgur gevhwn'' hqto ''qh''cfftguu0'}VtcpuQ

<u>]35_</u>"Untcj " c " c

]36_"Vj g"cddtgxkcvkqp."õ*U*ö."uvcpf u"hqt"yj g"Ctcdke"kpxqecvkxg" r j tcug."*ucmcmcj w"÷erc { j k'y c "chij k'y c "ucmco "*}o c { "I qf øu" ucnvxcvkqp"cpf "r gceg"dg"wr qp"j ko "cpf "j ku"r tqi gp { ; ."y j kej "ku" wugf "chvgt"yj g"pco g"qh'yj g"J qn{ "Rtqr j gv"O wj co o cf "*U+0" }VtcpuQ

<u>]37_</u>''*Dk ct ''cn'Cpy ct* ''xqr093.''r 04340

<u>]38_''Dk ct ''cn'Cpy ct ''xqr093.''r 04340</u> 39 "Cn/Mclk."xqr04."r 0: 80 3: "*Cn/Mclk*."xqr07."r 06; 80]3; 'O wtvcf c'O wcj j ctk'' $Uc{tk'fct''Utgj/{g'Pcdcyk''}C''}$ Uwtxg{ "qh'y g'Nkhg'Eqpf wev'qh'y g'Rtqr j gv'*U+; .'r 04350 <u>]42_'</u>C { cwmcj 'O wtvcf c'O wcj j ctk'*34; : /357: 'CJ U+'y cu'c'' uej qnct"qh'wpwuwcm{ 'y kf g'ngctpkpi ."c"r tqnkhke 'y tkgt."gnqs wgpv' ur gengt. "ngewitgt. "cpf "c"ej gtkuj gf "uwif gpv'qh'Ko co "Mj qo gkpko" J g'y cu'c'ngcf kpi 'o go dgt'qh'y g'Tgxqnwkqpct { 'Eqwpekn'wpvkn' j ku'cuucuukpcvkqp''qp''Oc{''3.''3;9; ''d{''y g''vgttqtkuv''Hwtscp''i tqwr0' }VtcpuQ]43 'O wtvcf c'O wcj j ctk'' cj ctcv/g'Tw.'r 0' 3440']44_"*Dk ct "cn/Cpy ct*."xqn09: ."r 0'5790]45_'Dk ct ''cn/Cpy ct.''xqn036.''r 0630]46_"Uwtcj "cn/Dcsctcj "4<870]47_'Vj g'P ki j v'qh'Rqy gt "*qt 'F getgg+."j cu'c'xgt { 'ur gekcn' uki pkhecpeg'kp'yj g'O wurko 'ecropf ct'dgecwug'k/ku'yj g'' cppkxgtuct { "qh'yj cv'pki j v'y j gp''yj g'S wtøcp''y cu'hktuv'tgxgcngf ''vq'' Rtqr j gv'O wj co o cf 0'Vj ku'pki j v'j cu'dggp'f guetkdgf "cu"-dgwgt" ý cp"c"ý qwucpf "o qpý uø"cpf "ttcf kkqp"j qnf u"ý cv"tgs wguvu" o cf g'\q'I qf 'f wtkpi ''Nc {nc v'cn/S cf t 'y km'dg'i tcpvgf 0'} VtcpuQ]<u>48_</u>"Uwt cj " c " c $49''U_{t}c_{j}''c_{n}Tc \neq 354:0$]4: _'Vj g'cddtgxkcvkqp.''õs ö''uvcpf u'hqt''y g'Ctcdke''kpxqecvkxg'' r j tcug. "s wf f kuc "ukt twj" o c{ "j ku"uqwn'dg"ucpevkhkgf ; . "y j kej "ku" wugf "chygt 'y g'pco gu'qh'r kqwu'r gqr ng0'} VtcpuQ]4; _'Ugg''Uwtcj "cn/Dcsctcj "4~84="Uwtcj "cp/Pkucø"6~8; ="Uwtcj " *cn cll*'44<390'}VcpuQ]52_"Dk ct "cn'Cpy ct."xqn06; ."r 03970 $53''U_{t}cj''cn' klt'37 \leq 0$]54_"Dk ct "cn'Cpy ct."xqr075."r 05480 **]55** "Unt cj " c " c $56''Untcj''cnTc \neq 354:0$ 57_{Uwtcj} "*Cn* Hclt": ; 49/4:0]<u>58_</u>"*Uwtcj* "*cn*/*Dcsctcj* "4⊲430]59_"Untcj "cn/S wtc{uj "328<5/60]5: _''Uwtcj ''cn' -Cpmcdwv''4; <670]5; _"Untcj "J wf '33⊲3360]62_"Pcj l"cn/Dcnci j cj "*Vj g'Rgcm'qh'Grqs wgpeg+'ku'c''eqngevkqp" qh'ur ggej gu. 'uc { kpi u'cpf 'rgwgtu'qh'y g'Eqo o cpf gt 'qh'y g' Hckj hwn "Ko co ":Cnk"kdp "Cdk"VÉcnkd"*: +eqo r krgf "d{"Uj ctkh"

ct/Tcf k'O wj co o cf 'kdp''cn/J wuc{p'*f0628''CJ 13238+0'Vj g'' eqpvgpvu'qh'y g'dqqm'eqpegtp'y g'y tgg'guugpvkcn'vqr keu'qh'I qf." o cp"cpf "y g"wpkxgtug."cpf "kpenwf g"eqo o gpw"qp"uekgpvkhke." rkgtct {. "uqekon"gyi keon"cpf "r qrkkeon"kuuwgu0"Y kj "yj g"gzegr vkqp" qh'y g'y qtf u'qh'y g'I mtkqwu'S wtøcp"cpf "qh'y g'J qn{ "Rtqr j gv" *U+."pq"y qtf u"qh"o cp"ecp"gs wcn"ky kp"grqs wgpeg0Uq"hct."o qtg" y cp"323"gz gi gugu'j cxg"dggp"y tkwgp"qp"y g"Pcj l"cn/Dcnci j cj ." kpf kecvkpi "y g"ko r qtvcpeg"qh'y ku'vtgcvkug'vq"uej qnctu"cpf" metpgf "o gp"qh'tgugetej "cpf "kpxguvki cvkqp0Hqt"o qtg" kphqto cvkqp. 'xkukx<<u>j wr dly y y @r/kurco @qti lpcj lwr</u>0'} VtcpuQ <u>]63_</u>"*Pcj l"cn/Dcnci j cj*."Ugto qp"4440]64 [Kdkf 0]65_''Kdkf 0''Ugto qp''3; ; 0 **166** "Kalkf 0 <u>]67_'</u>\ *cmcj* <'y g'\cz''ngxkgf "qp''xctkqwu''ecwgi qtkgu''qh''y gcnyi "cpf " ur gpv'qp''y g''r wtr qugu''ur gelthgf ''hp''*Uwt cj ''cv/Vcy dcj* ''; <820' }VtcpuQ <u>]68_''Kdkf</u> 0''Ugto qp''3; 80 <u>]69_''Dk ct ''cn'Cpy ct.''xqr099.''r 06240</u>]6: _''Unt cj ''cp/Pkuc ϕ '635; $\langle \tilde{o} V j q u g' y j q'' c m g' j g' h c k j ng u u'hqt ''$ cnkgu'kpuvgcf "qh'y g'hckj hwô f q''y g{ "uggnij qpqt "y kj 'y go A"}Ki" uq. ; 'kpf ggf 'cnl'j qpqt 'dgrqpi u'\q'Cncj @]6; _''Uwtcj ''cn/Dcsctcj ''4<670 72_"*Ocswhcuj /Uj co u*."r 039; 0 <u>]73_''Dk ct ''cn'Cpy ct.''xqr0': 5.''r 03490</u>]74_'Vchukt 'C kd''cn/Dc{cp.'xqr03.'r 03830 **]75_"***Uwtcj* "*cn*/*Dcsctcj* "4≪670]76_"Mj wo u<"nkgtcm{ "o gcpu"qpg/Why OCeeqtf kpi "vq"vj g"Uj keej " uej qqn'qh'lwtkur twf gpeg"}/ksj ; .''y ku'qpg/hkhy ''vcz 'ku'qdrki cvqtkn{" mgxkgf "qp"gxgt { "cf wn/O wurko "y j q"ku"hkpcpekcm{ "ugewtg"cpf "j cu" uwtr nwu'kp'j ku'kpeqo g'qwi'qh'cppwcn'ucxkpi u. 'pgv'eqo o gtekcn' r tqhku."cpf "cm'o qxcdrg"cpf "ko o qxcdrg"r tqr gtvkgu"y j kej "ctg" pqv'eqo o gpuwtcdrg'y ky 'y g'pggf u'cpf 'uqekcn'uvcpf kpi 'qh'y g' r gtuqp0^M wo u'ku'f kxkf gf 'kpvq''w q'gs wcn'r ctwk'y g''U ctg''qh'y g'' Ko co "}ucj o "cn'Ko co; "cpf "ý g"Uj ctg"qh'ý g"Uc{{kf uIUcf cv" *f guegpf cpvu'qh'y g'Rtqr j gv+"}*ucj o "cu/Ucf cv* 0Ceeqtf kpi n{." ý g'Uj ctg''qh'ý g'Ko co 'ku'vq''dg'r ckf 'vq'ý g'rkxkpi 'Ko o.'cpf 'kp'' y g'r gtkqf "qh'Qeewncvkqp. "vq"y g'o quv'rgctpgf "hxkpi "o wlwj kf" y j q'ku'y g'i kxgtøu'o ctlc -: cv/wsnlf "}Uqwteg''qh'Go wncvkqp; 0Vj g"

qvj gt 'j crh'qh'vj g''*nj wo u*.''vj g''Uj ctg''qh''vj g''U*t { lf uIUcf cv*.''ku''vq''dg'' i kxgp''vq''pggf { ''r kqwu''U*t { lf u*''y j q''rcem'yj g''tguqwtegu''hqt''qpgøu'' { gct''tgur gevcdrg''rkxkpi ''kp''eqpuqpcpeg''y ky ''yj gkt''xctkqwu''

uvcwugu0Hqt'o qtg'kphqto cvkqp.'ugg'Uc{ {kf 'O wj co o cf 'Tk xk'' Mj wo u<"Cp"Kurco ke"Vcz." j wr dly y y Ocn/kurco Oqti Idgrkghulr tcevkegulmi wo uQ vo nO **]**77_"*Uwtcj* "*cn*/*Dcsctcj* "4*⊲*370]78_'Dcmrcj <'y g''J qn{ 'O qus wg''qt 'y g''ekv{ ''qh'O geec.''qt ''y g'' vgttkqt{'yjgtg'yjg{'uvcpf0'}S'VtcpuQ **]79_''U**wtcj ''Crl'**-K**o tcp''5< 80 **]7:** "Untcj "cn/Dcsctcj "4⊲3720]7; _'Vj cv'ku."c"mpqy ngf i g"y j kej "y km'gpcdng"{ qw'vq"f kuvkpi vkuj " dgw ggp''twj ''cpf 'henigj qqf 0'}S ''VtcpuQ 182 "Unt cj "cn'Cphcn": 4;0<u>]83_</u>"Uwt cj "cn' cf kf "79⊲4: 0]84_"Unt cj 'O wj co o cf '69⊲390 **185** "Uwt cj "∹Cpmc dwv'4; <8; 0 **186** "Untcj "cn/C≠ch94230 **87_''***Uwt cj ''cn'-Cpmc dw'*⁴; **€**70 188_"Uwtcj "cn/Dcsctcj "4<670 **189_"**Unt cj "[mmh34⊲750 <u>]8: _"</u>Uwt cj "cn'S c c

18; "Unt cj "cp/Pc/k \div v'9; $\leq 2/63 \leq \delta Dw$ "cu'hqt 'j ko "y j q'ku"cy gf " vg'lucpf 'dghqtg'j ku'Nqtf 'cpf 'hqtdkf u'vj g'uqwrlhtqo ''}hqmqy kpi ;'' f gukt g. 'j ku't ghvi g'y kn/kpf ggf 'dg'r ct cf kug@ **]92_''**Uwt cj ''cn' Cp÷co ''8⊲3840 **93**_'Dk ct ''cn'Cpy ct.''xqn0': : .''r r 0'63.''; 50]94_"Untcj "cn/Dcsctcj "4<56<" Cpf "y j gp"Y g"uclf "vq"y j g"cpi gnu." -Rtqutcvg"dghqtg"Cf co.ø"vjg{"rtqutcvgf."gzegrv"Kdrku<jg" t ghnugf "cpf "cevgf "ctt qi cpvn(."cpf "j g"y cu"qpg"qh'y g"hckj rguu@ 195_"Unt cj 'Cn'-Ko t cp"5< 8<"õ Kof ggf ''y g'lkt uv'j quug''y ''dg''ugv''wr '' hqt "o cpmhpf "ku"yj g"qpg"cv"Dcmncj."drguugf "cpf "c"i whf cpeg"hqt " cm'pcvkqpu06 **196** "Unt cj "cn' -Cpmc dwi'4; <670 $97''U_{t}cj cp/Pkuc\phi' 6 < 5 < \tilde{o}Q'' qw'y j q'j cxg'hckj #Fq'pqv''$ crrtqcej "rtc{gt"y j gp"{qw"ctg"kpvqzko cvgf."}pqv; "wpvkn"{qw" mpqy "y j cv"{ qw"ctg"uc { kpi 0 b $]98_'U_ktcj$ 'cp/Pkucø'6364<'õY j gp ''y g{ ''j {r qet kgu+'uxcpf ''wr '' hqt"rtc{gt."y g{"uxpf"wr"nc/kn{."uj qy kpi "qHl\q"y g"rgqrng"cpf" pqv't go go dgt kpi 'Cncj 'gzegr v'c 'hkwg@]99_"Dk ct "cn'Cpy ct."xqn0": ; ."r 04230]9: _''Unt cj ''cp/Pkucø'6-3220 **]9;** _''*Ukt l'c / cncj* .''r 0340

<u>]: 2_</u>"*Unt cj "cn*/*Hc kt*"*qt"*cn*/*O cncøhncj* +'57<4; 0

]: <u>3_</u>''Uwtcj ''cn'C+tch'9<3920

]: 4_"Untcj "cn'

]: <u>5</u>"Uwtcj " c" c

]: 6_"Uwtcj "cn/Kutcø'39-9:0

]: 7_'S *kucu'**nkgtcm{ 'o gcpu'tgvtkdwkqp''qt'tgvchcvkqp+'kp''y g'' Kurco ke'lwtkur twf gpeg'ku'vq'dg''gzgewgf ''ci ckpuv'c''etko kpcn'y j q'' eqo o kwgf ''uwej ''etko g''cu''o wtf gt.''co r wcvkqp''qh''c''dqf { ''ko d.'' qt''rcegtcvkqp''cpf ''dgcvkpi ''ceeqtf kpi ''q''ngi cn'f getgg'y j gp''y g'' xkevko ''qt''j ku'i wctf kcpu''uggnitgvtkdwkqp''kp''ngw''qh'tgegkxkpi ''c'' hkpg''qt''dmqqf ''o qpg{0'}VtcpuQ

]: 8_"Unt cj "cn/Lkpp'94-3:0

]: 9_'Vj g'Mj ctklkgu''}*mj cy ctkl*; ''qt''*cnO ctks wp*'*c''pco g''i kxgp''vq'' y go "d{ "Ko co ":Crk"cpf "o gcpkpi "õy qug"y j q"o kuugf "y g"vtwy " qh'tgrki kqpö+'y gtg'c'i tqwr ''qh's wcuk/j qn{. ''pcttqy /o kpf gf '' O wurko u'y j q'y gtg''qtki kpcm{ hqmqy gtu'qh'Ko co "-Crk'cpf" hqwi j v'crupi ukf g'j ko "cv'y g'Dcwrg"qh'UkhhpOKpkkcm{ 'y g{" uwr r qtvgf "ctdktcvkqp."r wuj kpi "Ko co "÷Crk'vq"ceegr v'k≠"j qy gxgt." ncvgt 'y g{ 'tgxqnvgf ''ci ckpuv'kv'cti vkpi 'y cv'dgecwug'I qf 'y cu'y g'' qpn{ "\twg"ctdktcvqt. "Ko co ":Crk"cpf "y qug"y j q"ci tggf "y kj "j ko " kp''y g'ctdkstcskqp''y gtg''pqv'uko r n{ 'y tqpi ='y g{ 'y gtg'kp'hcev' wpdgrkgxgtu.'j gpeg''y g{ "eqwrf 'j cxg"pq'f gcrkpi u'y ky ''y go 0'Qp" Ko co ":Cnkøu'tgwtp'\q'Kcs 'htqo "Ukhkp.''y ku'i tqwr 'ugegf gf 'htqo " j ku'cto { "cpf "ugv'wr "eco r "qp"yj g"dcpmu'qh'yj g"P cj tcy cp"ecpcn0" Vj g'Mj ctklkgu'*qt'ugegf gtu+'dgeco g'c'hkgteg'i tqwr 'y j q'' dgnkgxgf ''y cv''y g{ ''y gtg''y g''qpn{ ''twg''O wurko u.''cpf ''cu''uwej '' y g{ "dgi cp" vgttqtk kpi "r gqr ng" y j qo "y g{ "tgi ctf gf "cu" wpdgnkgxgtu0Ko co ":Cnk'y cu'cv'hktuv'cdng'\q'\cmi\q'\j go "cpf" r gtuwcf g''uqo g''qh''y go ''vq''egcug''y gkt''j quvkrkxkgu. ''dwv'gxgpwcm{ '' j g'y cu'hqtegf '\q'\cmg'\xr ''cto u''ci ckpuv'y go 0"Kp'87; 'EG'j g'' cwcengf "y gkt "cto { "wpf gt "y g"ngcf gtuj kr "qh"-Cdf wncj "kdp" Y cj cd"cn/Tcukdk"cv"P cj tcy cp"cm quv'cppkj krcvkpi "y go 0" P cj tcy cp'y cu'y g'y ktf "cpf "ncuv'dcwrg"Ko co "÷Crk"gpi ci gf "kp" y ky 'j ku'kpvgtpcn'gpgo kgu0'} VtcpuQ]::_"*Uwt cj "cp/Pwt* "46<780]:; _"Uwtcj "cn/Dcsctcj "44780]; <u>2_</u>"Unt cj "cp/Pkucø"6<820]; 3_"Untcj "cn/S wtc{uj "328<5/60]; 4_"*Uwt cj "cn'*-*Cpmc dwv*'4; **6**70

]; <u>5</u>"Uwt cj " c " c

]: 6_''Wnwn/÷c o <'rksgtcm{.'tguqnwg'hki wtgu''qt''o gp''qh'f gekukqp0' }VtcpuQ]; 7_"Uwtcj "cn' :Cncs"; 8<3; 0]; 8_"Uwtcj "cn' Kutcø"*qt"Dcpk'Kutcøkn+'39<30]; 9_"Uwtcj "cn' Dcsctcj "4<450

];:_''Untcj ''[c''Up''58<82/83<

að and a star a sta star a sta

õFkf 'Kpqv'gzj qtv'{qw. 'Q'ej knftgp 'qh/Cfco.'uc{kpi.'+Fq'' pqv'y qtuj kr 'Ucvcp0J g'ku'kpfggf '{qwt 'b cpkhguv'gpgo {0' Y qtuj kr 'Og0Vj cv'ku'ij g'lutcki j v'rcvj øAö

]; ; _"Uwtcj "cn/Dcsctcj "4<620

<u>]322_</u>"Uwtcj "cn/Dcsctcj "4<960

<u>]323_</u>"Uwt cj "cn'Mcy vj ct"32: 3/40

<u>]324_</u>"*Untcj* "*cn*/*Dcsctcj* "4<670

]<u>325_</u>"*Dk ct "cn'Cpy ct*."xqn03: ."r 06430

<u>]326_''Dk ct ''cn/Cpy ct .''xqn0</u>; 3.''õDcd''Hc n'' crcj ''Lc-hct0ö

|327_"O chevkj "cn/Upcp"} Mg{u'\q'\y g'I ctf gpu'qh'Retef kug; <c" uvcpf ctf "o cpwen'qh'Uj k±k'f gxqvkqp"eqpvekpkpi "\y g'uwr r nkeevqt {" r tc { gtu'qh'\y g'kphenkdng'Ko co u'*±e+'cu'y gm'cu'hqto wreg'hqt" tgekkevkqp"ev'r etvkewret '\vo gu'qt "f wtkpi "xkukkevkqp"qh'\y g'\qo du" qh'\y g'Ko co u'*±e+"eqo r nkgf 'htqo "Dk t "cn/Cpy t"}Qegepu'qh" Nki j w; "cpf "qy gt'uqwtegu'd{ "Uj c { nj "±Cddeu'en'S wo o k''e" uej qnet "qh'xeuv'ngetpkpi "y j q'f kgf "kp'P cleh'kp''3; 620'}VtepuQ]328_'Vj ev'ku.'htqo "co qpi '\y g'pqp/O wurko u."qp" pqp/exekredkrkv{ "qh'O wurko ''y kpguugu'f wtkpi 'lqwtpg{0'}S " VtepuQ]329_"Uwt cj "cn/O cdyf cj '7<3280]32:_"Uwt cj "cn/Hevk cj ''3<90]332_"Uwt cj "cn/Hevk cj ''3<90</p>

]<u>333_</u>"*Uutcj* '*Oct*{*co* '3; *⊲*: 0

]334''Untcj''cn' klt''37<;0

<u>]335_</u>"*Untcj* '*Kdtcj* ko '36<590

<u>]336_</u>"Uwtcj "cn/C≠ch9∕530

<u>]337_</u>"*Dk ct "cn/Cpy ct*."xqn0: 2."r 03: : 0

<u>]338_</u>"*Dk ct "cn/Cpy ct*."xqr095."r 03550

<u>]339_'</u>Tkucngj/{g'C nco/g'Ko co 'Mj qo gkpk.'õKuwg''; 32ö0

]<u>33: _</u>"Uwtcj 'cn/Dcsctcj ''4-347="Uwtcj 'Oct{co '3; 330

]33; _"Untcj "Cn'-Kotcp"557<" $\tilde{o}Y j gp$ "i g''y k g'' qh' Kotcp" uck f."

 $+O \{ 'Nqtf.'Kf gf kecvg''vq''[qw'y j cv'ku'kp''o \{ 'dgm{.'kp''}$

eqpuget c vkqp0ö

<u>]342_</u>"*Dk ct "cn'Cpy ct*."xqr04."r 0630



Vj g'htuv'guugpvlcn'gngo gpv'}*t wnp*; ''qh'r tc{gt'ku''yj g'kpvgpvlqp'' }*pk{{cj*;0'

••

"

Kpvgpvkqp"o gcpu'vj cv'y g'j cxg"vq"mpqy "y j cv'y g"ctg"f qkpi ."y j cv" y g"ctg"tgekkpi ."cpf "hqt"y j qo "cpf "hqt"y j cv"c"egtvckp" o qxgo gpv"ku"o cf g0

Vj g'xcnvg''qh''gxgt { 'f ggf ''hgu''kp''y g''kpvgpvkqp''cpf ''o qvkxg''dgj kpf '' kv='pqv'o gtgn{ 'kp''y g''f ggf ''kugh0'Vj vu. ''y g''s vcnkv{ ''qh'y g''cevkqpu'' qh'c'r gtuqp'y j q''uvqr u''qp''c''tgf ''tchhe''hki j v'kp''qtf gt ''q''o ckpvckp'' qtf gt ''cpf ''tgur gev'hqt ''y g''ncy ''ku''f khbgtgpv'htqo ''y cv'qh''c'r gtuqp'' y j q''ecttkgu''qw''y g''uco g''cevkqpu''dwi'qw''qh'hgct ''qh''y g''tchhe'' qhhegt''qt''qh''y g''hkpg''y cv'j g''o ki j v'tgegkxg''hqt''xkqncvkpi ''tchhe'' tgi vncvkqpu0'fp''cm'hqto u''qh'y qtuj kr.''gur gekcm{ ''kp''r tc{gt.'' kpvgpvkqp''qeewr kgu''c''ur gekcn'ko r qtvcpeg0'

Kp"r tkpekr ng."y j cv'o cngu"cp"cevkqp"c"hqto "qh'y qtuj kr "ku'y g" f kxkpg"kpvgpvkqp"dgj kpf "kv0"Ki'uwej "cp"kpvgpvkqp"ku"pqv'r tgugpv." gxgp"kh'y g"qwy ctf "cr r gctcpeg"qh"c"f ggf "ku'i qqf "cpf "r tqr gt."kv" y qwrf "pqv'j cxg"y g"xcnvg"qh'y qtuj kr 0' Kp"y ku'tgi ctf."y g"J qn{ "Rtqr j gv'qh"Kurco "*U+'uckf < "

"" äã _aâ" ä

õXgtkn{.''y g''cevkqp''ku'**1wf i gf +''d{ ''y g''kpvgpvkqp'*'dgj kpf '' kv+0ö]343_

[gu.''y g"etksgtkqp"hqt"cp"cevkqp"\q"dg"lwfigf"ocvgtkcnkuvke"qt" ur ktkwcn'hkgu'kp''y g"kpvgpvkqp"cpf"oqvkxgu''dgjkpf''ks0

```
Upegt g'Kpvgpvkqp
```

Ukpegtg'kpvgpvkqp'o gcpu'ý cvo cp'cewi'hqt'ý g'ucng'qh'I qf 'qpn{"

cpf "kp"ý g"f grý "qh"j ku"dgkpi .'I qf "cpf "J ku"r ngcuwtg"ctg"j ku" cko u.'y ký qwv"gzr gevkpi "tgy ctf."i tcvkwf g"qt"cf o ktcvkqp"htqo " qý gtuQ344_

Vj g''qcxgu''qh''dtgcf ''y cv''y g''*Cj n'cn/Dc{v*'qh''y g''O guugpi gt''qh'' Cmcj ''*U+'i cxg''vq''y g''qtr j cpu. ''ecr vkxgu''cpf ''r qqt''qp''uweeguukxg'' pki j wi'cv''y g''vko g''qh''dtgcmkpi ''hcuv''}*khct*; 'f kf ''pqv'j cxg''o wej '' o cvgtkcn'xcnwg. ''dwi'ukpeg''y g{''y gtg''i kxgp''ukpegtgn{. ''qp''y ku'' ceeqwpv'I qf ''tgxgcngf ''c''*uwt cj* Q345_____

Cpf 'eqpegtpkpi 'kx.''÷C c c wk

Pa''ano''kn''y at if ''ecn''f ouet kdo''i ku''w at f ()'Pa''ano''kn''y a''

Pq"qpg"kp"'yj ku"y qt rf "ecp"f guet kdg"j ku"uy qt f 0Pq"qpg"kp"'yj g" j gt gchygt "ecp"f guet kdg"j ku"yj t gg"rqcxgu"qh'dt gc f 0 "

Y g'tgcf ''kp''j kuqt{''y cv'c''egtvckp''r gtuqp''y cu''unckp''kp''y g'' dcwnghlgnf ''cpf ''gxgt{dqf {''uckf <õJ g''ku''c''o ctv{t''}*uj cj l*f ; 06''Dw'' y g''Rtqr j gv'*U+'uckf <õJ g''y cu''nkngf ''kp''y g''y c{''qh'c''f qpng{'' }*s cvkd'cn' ko ct* ; #ö''Vj g''r gqr ng''y gtg''cuqpkuj gf .''dw''y g''Rtqr j gv'' *U+'uckf <õJ ku''cko ''kp''i qkpi ''q''y g''dcwnghlgnf ''y cu''pqv'I qf ='' tcy gt.''y j gp''j g''ucy ''y cv''y g''gpgo {''y cu''tkf kpi ''c''i qqf 'f qpng{.'' j g''uckf ''q''j ko ugnh<''-Ky kni'nkni'j ko ''cpf ''cng''j ku''f qpng{''cu''y ct'' dqqv{''}*i j cpko cj* ; 06''Dw''j g''f kf ''pqv'uweeggf ''cpf ''y cv''kphkf gn'' nkngf ''j ko ''kpuvgcf 0'Uq.''j g''y cu''nkngf ''kp''y g''y c{''qh'c''f qpng{'' }*s cvkd'cn' ko ct* ; #ö]346_'''

O cnkpi "qpgøu"kpvgpvkqp"ukpegtg"ku"kpf ggf "c"f khlkewn"cpf "vczkpi " y qtn0Uqo gvko gu. "y kengf "y qwi j wi'r gpgvtcvg" y g"uqwn"qh"o cp" vq"uwej "cp"gzvgpv" y cv"j g"j ko ugth"ku"wpcy ctg"qh"k0Cu"uwej ."kv"ku" pcttcvgf "kp" y g"vtcf kskqp" y cv"quvgpvcvkqp" $t k c \phi_1$ "kp" o cvgtu"qh" y qtuj kr "cpf "r qn{ y gkuo "} uj kt m "ctg" o qtg"uwdvg" cpf "ukrgpv" y cp" y g"o qxgo gpv"qh"c"dncem"cpv"qp"c"dncem"tqem"f wtkpi "c"f ctm" pki j v0347_"

Uq"o cp{"kpf kxkf wcni"ko ci kpg"ý cv"ý gkt "kpvgpvkqp"ku"pgctpguu" }*s wt d*; "vq"Cmcj."dwi'f wtkpi "ý g"wr u"cpf "f qy pu"qh"ý gkt"hxgu."kv" dgeqo gu"qdxkqwu"ý cv"ý gkt"o qvkxg"ku"pqv"c"j wpf tgf "r gtegpv" r wtg"cpf "ukpegtg0'

Kp''y g''y qtf u''qh'':Cmco cj ''Uj cj kf 'O wcj j ctk''kpvgpvkqp''o gcpu'' ugh/cy ctgpguu.''cpf ''y wu.''y g''xcnwg''qh''y qtuj kr ''ngu''qp''i pquku''

```
cpf "cy ctgpguu0"Y g'tgcf "kp"c"\tcfkkqp<"
''
```

"बैंबे सें क्वें" संस्कृतिय

õVj g'kpvgpvkqp''qh''y g''dgrkgxgt''ku''o qtg''xcnvcdrg''y cp''j ku'' cevkqp0j<u>348</u>_

Lwuv'hkng''y g''eqo r ctkuqp''dgw ggp''dqf { ''cpf ''uqwn''y g''uqwn'ku'' dgwgt''y cp''y g''dqf { ''cpf ''y g''j wo cpkv{ ''qh'o cp''ku''tgncvgf ''vq''j ku'' uqwr0'Kp''eqo r ctkpi ''kpvgpvkqp''cpf ''cevkqp.''kpvgpvkqp''ku''dgwgt''y cp'' y g''cev'kwgh''dgecwug''kv'ku''y g''ur ktki'qh''y g''cevkqp0 ''

Kpvgpvkqp'ku''uq''xcnvcdrg''y cv''gxgp'kh'c''r gtuqp''ku''wpcdrg''vq'' r gthqto ''c''i qqf 'f ggf.'I qf ''y km'tgy ctf ''j ko 'hqt''j g''j cf ''y g'' kpvgpvkqp''vq''f q''uq0<u>349</u>_

Vjg'o qvkxg'hqt'uggnlpi 'þgctpguu'}swtd;'vq'Cmcj

Vj g'o qvkxg'hqt 'pgctpguu''}s wt d; 'o gcpu'uggnkpi ''r tqzko kv{ ''vq'' y g'F kxkpg''Uvcvkqp0'Y j gp''kv'ku''uckf.''õUq/cpf/uq''ku''pgct''qt''enqug'' vq''c''egtvckp''pcvkqpcn''qhhkekcnö''y j cv'ku''o gcpv''ku''pqv''ur cvkcn'' dqf kn{ ''cpf ''r j {ukecn'pgctpguu.''hqt''kh''kv'y gtg''uvej.''y g''qhhkeg'' cwgpf cpvu''ctg''y g''enquguv''qt''pgctguv''vq''j ko 0T cvj gt.''y j cv'ku'' o gcpv''d{ ''y ku''pgctpguu''ku''ur ktkwcn''go qvkqpcn'kp''uvcwu''cpf '' pgctpguu''kp''kpvko ce $\{0$

F qkpi 'f ggf u'uggnkpi 'ý g''r ngcuwtg''qh'I qf 'f qgu''pqv'o gcp''y cv' I qf 'y qwrf 'dg''kphnvgpegf ''d{ ''qwt 'f ggf u'cpf ''ej cpi g''J ku''cwkwrf g'' qt ''r qukskqp''vqy ctf ''wu.''cpf ''cu''uwej .''J g''dgeqo gu''y g''uwdlgev''qh'' gxgpwu''cpf ''ej cpi g0'Kpuvgcf .''õpgctpguu''vq''Cmcj ö''o gcpu'' gzcncvkqp''qh'y g''ur ktki'y tqwi j ''y g''ncff gt''qh''gzkuvgpeg''y j qug'' eqpugs wgpeg''ku''y g''ces wkukskqp''qh''kphnvgpeg''kp''y g''etgcvkqp0' Vj cv'ku.''r tqzko kv{ ''vq''y g''Hqwpvckpj gcf ''qh''Etgcvkqp''cpf ''hkpf kpi '' J ko ''kp''qpgøu''j gctv0

Lwuv'cu'ý gtg"ctg"f khgtgpegu'kp"ý g"ngxgnu'qh"gzkuvgpeg"co qpi " kpcpko cvg"qdlgevu."r ncpvu."cpko cnu."cpf "j wo cp"dgkpi u."ý gtg"ctg" cnuq"f khgtgpegu"qp"ý g"ngxgn"qh"j wo cp"dgkpi u'y ký "tgur gev'vq" r tqzko kv{ "vq"ý g"Hqwpvckpj gcf "qh"Etgcvkqp0'O cp"eqwrf "cwckp" uwej "pgctpguu'vq"I qf "cpf"dg"ý g"pgctguv'vq"J ko "uq"ý cv"j g" dgeqo gu'ý g"xkegi gtgpv"qh"Cmcj "qp"ý g"gctý 0 "

Y qtuj kr 'y j kej 'ku'o qvkxcvgf 'd{ "pgctpguu''}s wtd; 'y km'o cmg"

o cp'o qtg'hwo kpqwu'cpf 'r gthgev'cpf 'j cxg'o qtg''gzkuvgpvkcn' ecr cekv{ ''} cth{ { $cv'g''y wlwf k_i$ 0Cmhqto u''qh''y qtuj kr .'' tgeqo o gpf gf 'r tc{gtu''kp''r ctvkewrct.''j cxg''uki pkhkecpv''tqrgu''kp'' y ku''chhckt.''lwuv'cu''y g''tgcf ''kp''c''j cf kj <

Vj cv'ku.'o cp''ecp''cny c{u'i gv''pgctgt''vq''I qf''y tqwi j " tgeqo o gpf gf''r tc{gtu034:__

Qdrki cvqt { "r tc { gt 'ku'r quukdn{ 'f qpg''qp''ceeqwpv''qh'hgct ''qh'j gm'' cpf ''y g''f kxkpg''y tcy .''dw''y g''qr vkqpcri'r tc { gt 'ku'c''uki p''qh''nqxg'' cpf ''y g''ugetgv''qh''nqxg''vq''y g''Y qtuj kr r gf ''Dgkpi ''} $o c \neq dwf$; 0 "

Vj g'f gi t ggu'qh'r t qz ko kv{ '}s wt d;

" "

Vj g'vgto '` $\delta f ctcl v \delta$ ''}f gi tggu; 'j cu''dggp''o gpvkqpgf 'htgs vgpv{'' kp''y g''S wtøcp''cpf 'kv'j cu''cr r gctgf ''y ky ''f kxgtug'' kpvgtr tgvcvkqpuô c''hcev'y j kej ''ghekku''uvdvg''r qkpvu0'Hqt''uqo g.'' y g''S wtøcp''uvcvgu $\langle \delta Hqt ''y go .''y gtg''ctg''f gi tggu0b]34; _''Hqt''$ $qvj gtu.''j qy gxgt.''kv''uc{u <math>\langle \delta Vj g{''*y go ugnxgu+ctg''}$ f gi tggu0b]352_''Kv'ku''nkng''y g''ecug''qh''i tgcv'hki wtgu''y j q''gxgp''kh'' y g{''ukv'cv'y g''nqy gt''ugevkqp''qh''cp''cuugo dn{.''y cv'ugevkqp''ecp'' dgeqo g'' δ j ki j δ =''y g{''ctg''y go ugnxgu''o cmgtu''qh'f gi tgg''cpf '' tcpm''cpf ''ctg''pqv''uvdlgev''q''f gi tgg''cpf ''uvcvkqp0

Vj ku''ur ktkwcn'tcpnkpi ''ku''pqv'gzenwukxg''\q''j wo cp''dgkpi u='hqt." y gtg''ku''cnuq''j kgtctej { ''co qpi ''y g''cpi gn0'Vj g''S wtøcp''y wu''uc{u'' tgi ctf kpi ''Ikdtcøkn'*Ctej cpi gn'I cdtkgn+'* \div +' $\delta Qpg''y j q''ku'j gctf$ " cpf ''\t wuwy qt yj { ''cu''y gn0 δ]353_

Ko"cp{ "ecug.''y g'f gi tggu''qh'j wo cp''dgkpi u''kp''qdgf kgpeg''vq''I qf " ctg''pqv''uko krct<

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30<sup>----</sup>Uqo gvko gu''o cp''qdg{u''}o wk; .''dwi'pqv''qwi'qhi'r ngcuwtg0

"

40<sup>----</sup>Cv'uqo g''qyj gt ''vko gu.''j g''qdg{u''}o wk; ''cu''y gm'cu''nqxgu''

}o w kdd; =''y cv'ku.''j g''qdg{u''I qf ''dcugf ''qp''nqxg''cpf ''

chhgevkqp0
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50<sup>----</sup>Vj gtg''ctg''cnq''\lo gu''y j gp''j g''cvclpu''r gthgev'i pqulu'' o c \neq k c j; "hct''j ki j gt''y cp''qdgf lgpeg''k c \neq j; "cpf ''nqxg''
```

o w cddcj; "cpf "y j cvgxgt "j g"uggu"ku"qpn{ "I qf 0J cf tcv":Cnk" *:x+"uc{u<

 $\hat{a} = \hat{a} =$

õKfq"pqv'ugg"cp{yikpi "gzegrv'Iqf."dghqtg"kv."chvgt "kv"cpf "yikj" k00]354_

Y g'j cxg'tq'hqxg'I qf 'hqt 'tj g'ucng'qh'I qf

Ki'ku'uckf ''y cv'lp''qtf gt ''q''yuv'y g''n { cnv{ ''qh'j ku''eqwtvkgtu. ''Uwncp'' Oc o wf ''I j c| pcy k'ugv'qwi'y ky ''c''ectcxcp''cpf ''r rcegf ''cp'' wpmengf ''eqpvclpgt''qh''lgy gnt { ''qp''c''eco gn0Cmpi ''y g'y c { . ''y g { '' tgcej gf ''c''xcmg{0J g''tqwugf ''y g''eco gn'cpf ''y wu''y g''eqpvclpgt'' wtpgf ''wr ukf g''f qy p''cpf ''y g''lgy gnu'hgnilkpvq ''y g''xcmg{0' ''

Vj g''Uwncp''uckf <õY j cvgxgt''lgy gnu''qpg''o c{''i gv'dgmpi u''vq'' j ko @''Vj qug''y j q''y gtg''ctqwpf ''j ko ''nghv'j ko .''cpf ''y g{''gpi ci gf '' y go ugnxgu''kp''co cuukpi ''i qnf ''cpf ''uknxgt0'O gcpy j kg.''kv'y cu'' qdugtxgf ''y cv'C{{c| ''j cf ''cdcpf qpgf ''y g''lgy gnu''cpf ''r wtuwgf ''y g'' Uwncp0'Vj g''Uwncp''cungf ''j ko <õY j {''f kf ''{qw''pqv''co cuu'' lgy gnuAö''Kp''tgr n{.''C{{c| ''uckf <

Hqt"og."Krtghgt"\q"enkpi"\q"{qw"cpf"\jwu"Kflf"pqv"ugtxg"\jg" itceg"}pk÷ocj;0

Vj gp. 'htqo ''y ku''gxgpv'O cy ncy k'eqpenwf gu<

"

"

"

"

Kl{ $qw'ctg'jqrkpi'hqt''jg'Htkgpf\phiu'itceg.''{qw'nqxg''{qwtugnl/pqv''jg'Htkgpf0}$

 $K'ku'eqpvtct { ''vq''yjg''urkt kwcn'rcyj ''} ctkscj; ''qh'vjg''cynk{cø''vq'' dguggej 'I qf''uqogvjkpi ''qvjgt''yjcp'I qf0$

Vj g'S wtøcp'j cu'uvtqpi n{ "eqpf go pgf "
vj qug'y j q'ecm'qp'I qf "qpn{ 'hqt 'y gkt "qy p'uc
ngu"cpf 'tgo go dgt 'J ko "qpn{ 'kp'\ko gu'qh" r tqd
ngo u'cpf 'cv'qy gt '\ko gu'hqti gv'qt "gxgp'f gp{ 'J ko < "

õY j gp 'ij g{ 'dqctf 'ij g'lij kr.'ij g{ 'kpxqmg'Cmcj 'r wwkpi '' gz enwukxg'hc kij 'kp 'J ko.'dwv'y j gp 'J g'f gnkxgt u'ij go 'iq'hcpf.'' dgj qnf.'ij g{ 'cuet kdg'r ct vpgt u'} vq 'J ko;.'dgkpi 'wpit cvghwnhqt '' y j cv'Y g'J cxg'l kxgp 'ij go #ö]355_

"

"

"

Cv'cp{ 'tcvg.'y qtmkpi 'hqt'qpgøu'ugh'ku'gi qvkuo ='hqt''y g''ucng''qh'' y g''r gqr ng''ku''kf qn'y qtuj kr ='cpf ''y qtmkpi 'hqt''y g''ucng''qh'I qf '' cpf ''J ku''etgcwtgu''ku''f wcrkuo ='cpf ''o cmkpi ''qpgøu'y qtm'cpf ''y cv'' qh''y g''etgcwtgu''hqt''y g''ucng''qh'I qf ''ku''y qtuj kr ''qh'I qf 0 Y g''y wu'tgcf ''kp''y g''rkxcpkgu''}*o wpclcv* <

 $\tilde{o}Q'I qf \#O \{ "y qtuj kr "ku" pqv"qww"qh" hgct "qh" j gm"qt "f guktg" hqt" [qwt"r ctcf kug0T cy gt. "kv" ku" dgecwug" Khqwpf "[qw" y qty { "qh" dgkpi "y qtuj kr r gf "cpf "y wu" Ky qtuj kr r gf "[qw0 j356_""$

[gu."qpn{ ''tcf gtu''y qtm''q"gctp''r tqhku''cpf "qpn{ ''urcxgu''y qtm'qw'' qh'hgct."dwi'htgg''cpf ''pqdng''o gp''y qtuj kr ''J ko ''\q"gzr tguu''y gkt'' i tcvkwf g''hqt''y g''f kxkpg''i tcegu."l'wuv''cu''j cu''dggp''pcttcvgf ''kp''y g'' y qtf u''qh''y g''Kphcmkdngu''} $o c \div wo kp$;]357_'* $\div \star$

õKpf ggf "ý gtg"ku"c"i tqwr 'ý cv'y qtuj kr u"Cmcj "hqt"i ckp="ý cv'ku" ý g'y qtuj kr "qh'ý g"tcf gt0"Vj gtg"ku"c"i tqwr 'ý cv'y qtuj kr u"Cmcj " qwd"qh"hgct="ý cv"ku"ý g"y qtuj kr "qh"ý g"uncxg0°Cpf "ý gtg"ku"c" i tqwr 'ý cv'y qtuj kr u"Cmcj "qwd"qh"i tcvkwf g="ý cv"ku"ý g"y qtuj kr " qh'ý g"htgg0j]358______ Kp"ý g"ncpi wci g"qh" chk.]359__

Vj gt g'ku'pq''qpg''kp''qwt 'j gc t w'*o kpf u+'dwv''vj g'Ht kppf 01 kxg''vj g''

w q'y qt rf u'\q''y g'gpgo { "cu''y g'Ht kgpf 'uwHkegu'hqt 'ww

Kp 'o cvgtkcnkuvke ''nqxg. ''y g''r gtuqp ''nqxgu''j ku''qdlgev''qh''nqxg''hqt " j ko ugth ''dwv''kp ''ur ktkwcn''nqxg''y g''r gtuqp ''f gf kecvgu''j ko ugth''q''y g'' Dgnqxgf 0'Kp''y g''Uwr r necvkqp''qh''Mwo c $\{n'\}f w \div e^{\phi' mwo} c\{n, .]35:__'' \div Cnk''* \div c+''uc \{u< ..., u< ..., u
$

ßai â ai at at a

õQ'Nqtf#O cmg'o {'j gctv'gpy tcmgf 'd{'[qwt''nqxg#ö

$Cvvclpo \ gpv'qh'tj \ g'ivc vg'qh'r t \ qz \ lo \ ks \{ \ ' \} s \ wt \ d;$

Cvckpo gpv'qh'y g'f kxkpg'r tqzko kv{ "}swtd/g'kxjk" cpf "o qvkxg" hqt "pgctpguu"}swtdcj; "ku"cej kgxgf "kp" y q" y c{u<

Qpg'ku'\q'tgeqi pk g'\j g'i tcpf gwt"cpf 'uvcvkqp"qh'I qf "cpf '\j g" qvj gt 'ku'\q'tgeqi pk g'\j g'o gcppguu"cpf ''cdlgevpguu''qh''qvj gt '\j cp" J ko 0

Vj g'S wtøcp''cny c{u'o gpvkqpu''y g'f kxkpg'hcxqtu''cpf 'i tcegu''q'' y g''ugtxcpwi'*qh'I qf +''uq''cu''q''o cng''o cp''gpco qtgf ''d{ ''y g''nqxg'' hqt'I qf 0'Uvcvkpi ''J ku''C wtkdwgu.''J ku''etgcwtgu.''J ku''o cvgtkch''cpf '' ur ktkwch'cuukuvcpeg''cpf ''y g''o cp{ 'hcxqtu.''i tgcv''cpf ''uo cnô cm'' kp''cm''ctg''o gcpv''vq''gpj cpeg''qwt''nqxg''hqt''I qf 0

Qp''y g''qy gt''j cpf.''y gtg''ctg''o cp{''xgtugu''y j kej 'kpf kecvg''y g'' y gcmpguu''cpf ''o gcppguu''qh''qy gt''y cp''I qf.''uc{kpi <'Cp{qpg'' cpf ''cp{y kpi ''qy gt''y cp''I qf ''j cxg''pgky gt''j qpqt''pqt''r qy gt0' Gxgp''kh'y g{''eqo dkpg''qi gy gt''q''etgcvg''c'hn{.''y g{''y qwf ''pqv'' dg''cdng''q''f q''uq0'Gzegr v'J ko ''y j q''eqwf ''cpuy gt''y g''ecmi'qh'' j gr nguu''cpf ''y g''kpf ki gpvA'J qy ''eqwf ''kv'dg''r tqr gt''q''f kuewuu'' qy gtu''kp''cuuqekcvkqp''y kj ''I qf ''cpf 'tgi ctf ''y go ''cu''gs wcn''q''cpf '' r ctvpgtu''qh'I qf A

"

C'T geqngevkqp

"

Qpg"qh'ý g"*o ctclk:"cv/vcs df* <u>135;</u>"qh'ý g"Uj k:ej ''y qtnf ''y cu" C {cwmcj ''cn' :W o c''Dwtwlgtf k0F wtkpi ''f c {u''qh''o qwtpkpi .''j g" wugf ''vq''j qnf ''o qwtpkpi ''egtgo qpkgu''kp''j ku''tgukf gpeg0'Kp''qpg''qh'' ý gug''cuugo dnkgu.''j g''y cu''pqv'hggnkpi ''y gm0'Uq.''j g''y cu''tguvkpi ''kp'' j ku''r tkxcvg''tqqo ''y j kng''nkuvgpkpi ''vq''y g''ur ggej gu''qh''y g''qtcvqtu0 Qpg"qh'ý qug'r tgugpv'kp'ý g'o qwtpkpi ''cuugo dn{ ''uckf <õGz vgpf '' cncy cj '*kpxqecvkqp''qh''dnguukpi u''vq''ý g''Rtqr j gv''cpf ''j ku'' r tqi gp{ ''*÷c ++'hqt''ý g''ucmg''qh''ý g''j gcnj ''cpf ''uchgv{ ''qh''ý g''Ko co '' qh'ý g''Vko g''cpf ''Csc''Dwtwlgtf k#ö''

"

"

"

Uwf f gpn{.''y g{ 'hqwpf ''qwi'y cv'j g'y cu'npqenkpi ''y g'f qqt 'y ky '' j ku'uvchh0'J ku''pgct 'tgncvkxgu''eco g''cpf ''cungf <'õKu''y gtg''cp{ y kpi '' y g''ecp''f q''hqt''{qwA'ö''Vj ku''i tgcv'*o ctlc :''cv/vcs nlf* ''uckf <'õY j {'f kf '' {qw'o gpvkqp''o {''pco g''cmpi ''y ky ''y g''pco g''qh''y g''Ko co ''qh''y g'' Vko g''* \div +A'Kf q''pqv'j cxg''y g''y qty ''hqt''{qw''q''o gpvkqp''o {'' pco g''cmpi ''y ky co ''cpf ''kpxqmg''dnguukpi u'' } *cncy cj*; ''qp''wu''dqy @]<u>362</u>

Vj ku'tgrki kqwu'cwj qtk{ 'y j q'y cu'c'f gr w{ "}*pcøkd*; 'qh'y g'Ko co " qh'y g'Vko g'*÷c+'y cu'pqv'y krkpi 'vq'ngv'j ku'pco g'dg'o gpvkqpgf " cmpi 'y kj 'y g'pco g'qh'cp'kphcrhdng'Ko co .'dwi'o cp{ "qh'wu.'qp" ceeqwpv'qh'kpeqttgev'wpf gtuvcpf kpi ''cpf 'ko r qrkgpguu.'r rceg'y g'' pco gu'qh'y gcrh'cpf 'y qtqwi j n{ ''pggf { ''etgcwtgu'cmpi 'y kj 'y g'' pco g''qh'I qf .'y g'Qo pkr qvgpv.'Cduqnwg''cpf ''Gzcngf .''cu'kh'y g'' tgi ctf 'y go ''cu''gs wcm0

S werks{ 'qt 's wepvks{ A

Kurco 'j cu'r ckf 'o wej ''cwgpvkqp''vq''y g''o cppgt''qh'r gthqto kpi ''c'' vcum'cpf ''y g''wpf gtn{ kpi ''o qvkxg''cpf ''r wtr qug''dgj kpf ''k0'Vj g'' S wtøcp''r tckugu''y g''*dgwgt ''cew*''cpf ''pqv''y g''*co qwpv''qh'cew*'' *ceeqo r nkuj gf*.''uc{kpi <''

õVj cv'J g'b c{'lguv'{qw'}vq'lgg;'y j kej 'qh{qw'ku'dguv'kp'' eqpf wevlb]363_

Y j kg'kp''c''uvcvg''qh''*t wmw*:''}dqy kpi ''f qy p; .'J cf tcv':Crk'*:c+'i cxg'' j ku'tkpi ''q''c''dgi i ct.''cpf ''qp''ceeqwpv''qh''y ku.''c''xgtug''}c{cj ; ''qh'' y g''S wtøcp''y cu'tgxgcrgf 0'Uqo g''r gqr rg'ko ci kpg''y cv'y g''tgcuqp'' dgj kpf ''y g''tgxgrcvkqp''qh''c''xgtug''dgecwug''qh''c''tkpi ''y cu'y cv'y g'' tkpi ''y cu''r tgekqwu''cpf ''y wu''y g{''j cxg''uckf <õVj g''xcnvg''qh''y g'' tkpi ''y cu''gs wcn''q''y g''cz''cpf 'tgxgpwg''qh''cm''qh''Uj co cv0j]364_''

Vj ku'ku'y j krg'c'tkpi 'y kj 'uwej 'c'r tkeg'eqwrf 'pgxgt'dg'eqpukuvgpv'

y kj ''ý g''uko r nkekv{ ''}/*wj f*; ''qh'+C nk'* $\div +0$ Kk'y cu''gs wcm{ '' kpeqo r cvkdng''y kj ''j ku''ugpug''qh'' wuvkeg''hqt ''j ko ''vq''j cxg''uwej ''c'' tkpi ''qp''j ku''j cpf ''y j kng''uqo g''r gqr ng''y gtg''kp''c''uvcvg''qh''r qxgtv{ '' cpf ''kpf ki gpeg0'Dwi'y g''twj ''qh''y g''o cwgt ''ku''y cu''qp'' ceeqwpv''qh''y g''s wcnkv{ ''qh''y g''f ggf ''cpf ''pqv''ku''s wcpvkv{ .''cpf ''qp'' ceeqwpv''qh''y g''ukpegtkv{ ''cpf ''kpvgpvkqp''hqt''pgctpguu''} *s wt dcj*; '' cpf ''pqv'y g'y gki j v'cpf ''o ci pkwf g''qh''y g''tkpi øu''xcnwg''y cv'y g'' hqmqy kpi ''xgtug''y cu''tgxgcngf <

 $\tilde{o}[qwt'iwctfkcp'ku'dpn('Cncj.'Jku'Crqung.'cpf''g'ckjhwn''y j q'bckpwckp''g'ctc{gt'cpf'ikcg''g'cncv'y j krg''dqy kpi'' f qy p(b]365_$

"

"

"

C'T geqngevkqp

Dcj nun'ucy "c''i tqwr "qh'r gqr ng"eqputweykpi "c''o qus wg"cpf " enclo kpi 'y cv'y g{ 'y gtg'f qkpi 'uq'hqt 'y g'ucng"qh'I qf 0J g" kpuetkdgf "qp'c''uqpg<õVj g''dwkrf gt''qh''y ku''uqpg''ku'Dcj nvnö"cpf " r ncegf 'kv'cv'y g''f qqt''qh'y g''o qus wg''qpg''pki j v0'Vj g''hqmqy kpi " f c{.'y j gp''y g''y qtngtu''ucy ''y g''kpuetkdgf ''uqpg.''y g{ ''tgr qtvgf ''kv'' vq''J ctwp''ct/Tcuj kf 0'Uq.''j g''uwo o qpgf ''Dcj nvn''cpf ''cungf ''j ko <'' õY j {''j cxg''{qwi''cuuwo gf ''qy pgtuj kr ''qh''c''o qus wg''Kco '' eqpuvtweykpi Aö

Dcj nwi'tgr nkgf <õKi'{qw'ctg''tgcm{ "eqputvevkpi ''y g''o qus wg'hqt" y g''ucng''qh'I qf.''y gp''ngv'o { ''pco g''dg''kpuetkdgf ''y gtgkp'*cu''y g'' qy pgt+0Cp{y c{.'I qf ''mpqy u''y j q''y g''tgcn'dwkrf gt 'ku0Dgukf gu." J g''y kni'pqv'eqo o kv'cp{ ''o kuvcngu'kp''i kxkpi ''y g''tgy ctf 0'Ki'kv'ku'' tgcm{ 'hqt''y g''ucng''qh'I qf.''y j gy gt''o { ''pco g''qt''{qwt''pco g''ku'' kpuetkdgf ''y gtg''f qgu''pqv'o cwgt0'

Kp'f qkpi ''uq.''Dcj nwl'ngv'j ko ''wpf gtuvcpf ''y cv'j g''j cf ''pq''kpvgpvkqp'' hqt ''pgctpguu''}s wt dcj; ''*vq''Cmcj +.''dw'tcyj gt 'hqt 'f guktg''cpf '' hco g0'Hqt ''y ku'tgcuqp.''y g''S wtøcp''hngpu''y g''f ggf u''qh''y g'' kphkf gnu''}*mvHct*; ''vq''c''o ktci g''y j kej ''uggo u''vq''dg''y cvgt''dwi'kv'ku'' pqv<

 $\tilde{o}Cu'hqt''jg'hckjnguu.''jgkt''jqtmu'ctg'hlmg'c''bktcig'hp''c''rnckp.''$ $y jkej''jg''jktuw{''ocp''uwrrqugu''vq''dg''ycvgt(b]366_$

Kp"r tkpekr ng. "Kunco "tgi ctfu"cp"cev"cu"tki j vgqwu"kh"ku"hqwt" eqpuvkvwkxg"gngo gpvu"ctg"i qqf <'vj g"eqo r qpgpvu"qh"vj g"cevkqp." vj g"o qvkxg."o gcpu."cpf "o gyj qf 0

Vj g'o qvkxg'hqt'pgctpguu''}*s wt dcj*; 'ku'pgeguuct { 'pqv'qpn{ 'cv'y g'' dgi kppkpi 'qh'cp''cev='tcy gt.''y g''kpvgpvkqp'hqt'f kxkpg''r tqzko kv{ '' uj qwrf 'tgo ckp''y tqwi j qwi'y g''eqwtug''qh''y g''cevkqp''qy gty kug'' y g''cev'kp''ku''gpvktgv{ ''dgeqo gu''xqkf 0

Ki'ý g'o qvqt"qh'cp"cktr ncpg"o crhwpevkqpu'hqt"qpn{ "c"o kpwg."ý g" cktr ncpg"y knif ghkpkgn{ "eqo g"etcuj kpi "f qy p0'Rqn{ ý gkuo "uj kt m "qt"quvgpvcvkqp"} $tk c \phi$ "kp"ý g"kpvgpvkqp"} $pk {cj ; ."ý qwi j "hqt"qpn{ "c"o qo gpv."y knigzvkpi wkuj "ý g"gpvktg"cev"cpf "tgpf gt"kv" wugrguu0'$

Cpqvj gt 't geqngevkqp

Qp'c'egtvckp'htki j v.'ý g'r cuugpi gtu'qh'cp''cktr mpg''r tgr ctkpi 'hqt'' vmg''qhh'y gtg''cungf ''q'f kugo dctm'htqo ''ý g''cktetchv'cpf ''ý g'' htki j v'y cu'f gm { gf 'hqt'o cp { 'j qwtu0'Kcungf ''cdqwi'y g''tgcuqp'' dgj kpf ''ý g''f gm { 0'Uqo gqpg''uckf <õC ''eqentqcej 'j cf ''dggp''uggp'' kp''ý g''cktetch#ö''Kgzencko gf <õC m'y ku'f gm { 'ku''dgecwug''qh''c'' eqentqcej A#ö''

Kł'y cu'uckf 'kp'tgr n{ <õ[gu.''dgecwug''y gtg'j cxg''dggp''o cp{ ''ecugu'' y j gp''c''eqentqcej ''y qwrf ''i pcy ''y tqwi j ''c''y ktg''cpf ''y g''eqpvtqn'' u{uvgo ''qh''y g''cktetchv''y qwrf ''o crhwpevkqp''cpf ''y ku''eqwrf ''ngcf ''vq'' c''o kuj cr 0o ''

O cp{ ''i qqf ''f ggf u''ctg''uwr r qugf ''vq''ngcf ''vq''o cpøu''cuegpukqp'' vqy ctf ''I qf .''dwi'dgecwug''qh''c''ur ktkwcn''xkeg.''pqv''qpn{ ''f q''y g{ '' pqv'ngcf ''vq''j ku''cuegpukqp=kpuvgcf .''y g{ ''y qwrf ''ngcf ''vq''j ku''hcm0' ''

Vj g'kpvgpvkqp'i kxgu'xcnvg'tq'tj g'f ggf

"

Ngv'wu'cuuwo g''y cv'qwi'qh'qr r tguukqp"cpf "ci i tguukqp."uqo gqpg" mkmgf "cpqyj gt"cpf "kv'dgeco g"mpqy p"ncvgt"y cv'y g"xkevko "j cf" dggp"c"etko kpcn'y j q'y cu'uwr r qugf "vq"j cxg"dggp"gzgewgf 0"Kp" y ku'ecug."y j cv'y g"mkmgt"j cf "f qpg"y cu'dgpghkekcn"j qy gxgt"y g" r gqr ng'y km'pqv'r tckug'y g"o wtf gtgt"dgecwug'j ku'kpvgpvkqp'y cu"

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nkmkpi "cp"kppqegpv'r gtuqp"cpf "pqv'gzgewkpi "c"eqttwr vqt"qp"yjg"
gctyj "}o whulf 'lkon'ct ;0
```

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Vj wu. ''y g''wughwipguu''qh''c''y qtniku''pqv'gpqwi j 'hqt''kv''vq''dg''
tgi ctf gf ''cu''c''tki j vgqwu''cev0'kp''hcev. ''kv''ku''pgeguuct { 'hqt''kv''vq''dg''
ceeqo r cpkgf ''d { ''c''r wtg''kpvgpvkqp''cu''y gm0
''
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```
Kp"cmlkpuxcpegu."ý g"S wt¢cp"tc{u'uvtguu"qp"ý g"kpvgpvkqp"hqt"
pgctpguu"}swtdcj; "*'q"Cmcj +'y j gý gt"kp"ý g"ecug"qh"nj wo u."
/cmcj "cpf"qý gt"hkpcpekcn'o cwgtu."qt"kp"ý g"ecug"qh'y ct"cpf"
lkj cf "ci ckpuv'ý g"gpgo {0'Vj g"hcev'ý cv'ý g'S wt¢cp"go r j cuk gu"
uwej "r j tcugu"cu"õ Kp"ý g"y c{"qh'Cmcj .ö]367_"õHqt"ý g"ucmg"qh"
Cmcj .ö]368_"cpf "õUggmkpi "ý g"r ngcuwt g"qh'Cmcj]369_"ku"cp"
kpf kecvkqp"qh'ý g"ko r qtvcpeg"qh'ý g"kpvgpvkqp"hqt"pgctpguu"
swt dcj; "vq"Cmcj 0
```

```
Ka'ý qug'y j q''ctg''r gthqto kpi "dgpghkekcn'cewi'qp''dgj cnh'qh'ý g''
r gqr ng''d{ "eqpuvtwevkpi ''uej qqnı.'j qur kcnı.'tqcf u.''cpf ''
f qto kxqtkgu'j cxg''pq''f kxkpg''kpvgpvkqp.''ý g{ ''j cxg''eqo o kwgf ''cp''
kplwuvkeg''vq''y go ugnxgu''dgecwug''y g{ ''y go ugnxgu'y km'pqv''
dgpghkv'htqo ''y qug''f ggf u''cnyj qwi j ''qyj gtu'y km'i gv'o wej ''dgpghkv''
htqo ''y go 0
```

```
Vj cv'ý g'S wt¢cp''cny c{u'o gpvkqpu'tki j vgqwu'f ggf u''cmpi 'y ký "
hcký .'\uc{kpi <'õVj qug'y j q'j cxg'hckj ''cpf 'f q'tki j vgqwu''
f ggf u ö]36: _''qt''õY j qgxgt 'cewi'tki j vgqwuf(.'}y j gyj gt ;'o cng'qt ''
hgo cng.'lj qwnf 'j g'*qt 'lj g+'dg'hckj hwrö]36; _''ku''dgecwug''qh''y g''
hcev''y cv''y g'' qqf pguu''qh''cp''cev''cmpg''ku''pqv''gpqwi j ='tcy gt.''y g''
i qqf pguu''qh'y g''f qgt 'ku''cnuq''tgs vktgf 0
"
```

Vy q'j knqt lecn'ceeqwpvu

```
30'Dkren'en' edeuj k''y j q''y cu''y g''eengt''\q''r te {gt"}o w \approx f j f j k p; "
qh'y g''J qn{ ''Rtqr j gv'*U+.''y qwf ''r tqpqwpeg'`õuj ö''}u j k p; ''cu'`õuö''
u k p; ''kp''y g''tgeken'qh''y g''ugpvgpeg.''õCuj j ef w'ep''re 'krej e''
k n c \phi n c j ö''cu''j g''j ef ''c''f ghgev''kp''r tqpwpekevkqp0'Vj g''r gqr ng''
etkkek gf 'kx.''dwi'y g''Rtqr j gv'*U+''uckf <õVj g''u k p''qh''Dkren'ku''u j k p''
hqt'I qf @j<u>372_</u>
```

```
Cnj qwi j "qwy ctf n{ "j ku"y qtm'y cu"f ghgevkxg."ukpeg"j g"j cf "y g"
o qvkxg"hqt"pgctpguu"}s wt dcj; "cpf "i qqf "kpvgpvkqpu."j g"tgegkxgf "
y g"tgy ctf 0
```

```
"
```

"

40'-Cdf 'Cmcj 'kdp'O cmwo 'y cu'qpg''qh'y g''ukpegtg'Eqo r cpkqpu'' qh'y g''Rtqr j gv'*U+''cpf ''c''dhkpf ''o cp0'Qpg''f c { .''y ku'i tgcv'' Eqo r cpkqp''gpvgtgf 'kpvq''cp''cuugo dn{ 'y j gtg'y g''Rtqr j gv'*U+'' cpf ''uqo g''r gqr ng'y gtg''dwu{ ''cmkpi 0'Cu'j g''eqwrf ''pqv'ugg''y g'' qy gt''r gqr ng'kp''y g''cuugo dn{ .''j g''cmgf ''nqwf n{ 0'Dgkpi ''cppq { gf .'' qpg''qh'y qug'y j q''y gtg''r tgugpv'kp''y g''cuugo dn{ ''htqy pgf ''cv'j ko 0 ''

Kp ''ur kg ''qh''y g 'hcev'y cv'htqy pkpi ''cpf ''uo kt
kpi ''f q ''pqv'o cmg''cp{ '' f khgtgpeg ''q''c ''dtkpf ''r gtuqp ''cu''j g ''ecppqv''ugg. ''y g ''S wtøcp '' tgxgcngf ''c 'y j qng''*uwt cj* ''qp''ceeqwpv''qh'y cv'xgt { ''htqy pkpi .''cpf '' tgr tqcej gf ''y g ''r gtuqp ''y j q ''htqy pgf ''kp''vgp''uweeguukxg ''xgtugu'' $c_{cv} <$

õJ g'ht qy pgf 'cpf 'iwt pgf 'cy c{ 'ý j gp 'ij g'dhpf 'b cp '' crrt qcej gf 'J ko 0Cpf 'J qy 'f q'{qw'hp qy .'b c{dg'J g'y qwnf '' rwt kh{ 'J ko ughh 'qt 'icmg'cf o qp kkqp .'cpf 'ij g'cf o qp kkqp '' y qwnf 'dgp ghkv'J ko #'Dwv'cu'hqt 'lqo g'qpg'ý j q'ku'' ught'eqo rncegp v.'{qw'c wgpf 'iq'J ko .'ij qwi j '{qw'ctg'p qv'hc dng'' khij g'f qgu'p qv'r wt kh{ 'J ko ught Dwv'j g'ý j q'eqo gu'J wtt {kpi 'iq'' {qw.'y j kg'J g'hgctu'}Cncj ;.'{qw'ctg'pgi ngevhwnlqh'J ko 06]373_"

Uq. 'vj g''etkgtkqp''qh''c'f ggf 'ku''pqv'ku'wughwpguu''qt'j cto hwpguu'' y kj 'y j kej 'y g'y qwrf ''gxcnxcvg'kv''cpf ''uc { <õKh''cp''cevkqp''i kxgu'' dgpghkv'vq''qvj gtu. ''kv'ku''c'tki j vgqwu''f ggf ''cpf ''kh''kv''tgpf gtu'j cto '' y gp''kv'ku''cp''ko r kqwu''cevto''Kpuvgcf . ''y g''j cxg''vq''cuuguu''y g'' tgrcvkqpuj kr ''qh''y g''cevkqp''y kj ''y g''r gtuqp''j ko ugrhô y j cv'y gtg'' j ku'o qvkxgu''kp''f qkpi ''kvA'Qt. ''j qy ''ku''y g''cevkqp''r gt''ug''kh''kv'' tgpf gtu''pgksj gt''dgpghkv'pqt''j cto ''vq''qvj gtuA''

[gu. "kp"ý g"uej qqn"} $o \ cmcd$; "qh'ý g"r tqr j guu"* \div +."o qtcrkv{ " } $cmj \ rcs$; "j cu"guugpvkcn"} $fj \ cvk$; "xcnvg"cpf "pqv"o gtgn{"ceekf gpvcn"} } $\div tc \ k$; "xcnvg0"KV"ku"pqv"nkng"ý g"o qtcrkv{ "qh"c"r gtuqp"y j kej "ku" o gcpv"vq"cvtcev"evuvqo gtu. "o czko k g"ý g"xqnvo g"qh"r tqf vevkqp" cpf "i cý gt"r gqr ng"ctqwpf "j ko 0

Kp ''y g''gr kuqf g''qh ''y g'' $\pm dcuc$ ''} j g''y j q''htqy pgf ; .''y g''etkkekuo 'ku'' cpej qtgf ''qp ''y ku<'Y j { ''f kf ''{qw'htqy p''cv''y g''dnkpf ''o cpA'' Cnj qwi j ''y g''dnkpf ''o cp''ecppqv'ugg''{qw.''htqy pkpi ''cv'c''dgnkgxgt''

```
ku'kp'kugh'cp''cdj qttgpv'cev0'
```

"

"

"

Kp"cp{"ecug."yj g"o qvkxg"hqt"pgctpguu"}*s wt dcj*; "o gcpu'yj cv'cm" cevkqpu"o wuv'dg"f qpg"ceeqtf kpi "vq"f kxkpg"etkgtkc"cpf "uj qwrf " pqv'j cxg'f ktg"r qrkskecn'cpf "uqekcn'ko r cev'wr qp"qyj gtu0

Vj g'o qvkxg'hqt''pgctpguu''}*s wt dcj*; ''o gcpu''y cv'cp''cev'o wuv'dg'' f qpg'hqt''y g''ucmg''qh'I qf 'tgi ctf nguu''qh''ku''tguwncpv'lq{ ''qt'r ckp0' Kp''f guetkdkpi ''y g''twg''dgrkgxgt.''y g''S wtøcp''uvcvgu<

" `ä`ââââââ`â`âⁱaa` `âãä ä

\tilde{o} *Vjg{+'y cig'llj cf'lp'ljg'y c{'lpCmcj.'pqv'hgctlpi'ljg'lmcog'' qh'cp{'lmcogt@]374_

Vj g'o qvkxg'hqt "pgctpguu"}*s wt dcj* ; "o gcpu'y cv'qpg'o wuv'uc{ "y g" vtwj "cpf "pqv'dg"eqpegtpgf "cdqw'cp{y kpi "qt"cp{dqf { "gzegr v" J ko .''lwuv'cu'y g'S wtøcp''y wu'f guetkdgu''y g'f kxkpg''r tqr ci cvqtu<

õUwej "cu'f grkxgt "\j g"o guuci gu"qh'Crncj "cpf "hgct "J ko."cpf "hgct " pq"qpg"gzegr v'Crncj."cpf "Crncj "uwhtkegu"cu't gemqpgt 05]375_ "

C't geqngevkqp

Qpg'f c{.''Ky cu''gpi tquugf ''kp''f qkpi ''uwr r necvkqp''} $f w \neq \phi$ ''cpf '' r c{kpi 'j qo ci g''}/k{ctcj ; 'kp''y g''j qn{''uj tkpg''qh''Ko co ''ct/Tkf c'' * \neq +0Qpg''qh'y g''r kri tko u''}/ $c \phi t kp$; ''ucv'dgukf g''o g''cpf ''cu'j g'' tgeqi pk gf ''o g''htqo ''o {''VX''r tqi tco ''gxgt{''Htkf c{''pk j v''j g'' i cxg''o g''c'uwo ''qh''o qpg{.''uc{kpi <} Csc'S ctc \overline{vk#I kxg''y ku'' o qpg{''qh'y g''r qqt00''Kuckf <} Nkng''{qw.''Kj cxg''cnuq''eqo g'j gtg'' hqt''/k{ctcj ''cpf ''j gtg+''kp''O cuj j cf ''Kf q''pqv''npqy ''qh''cp{''r qqt'' r gqr ng0[qw'i kxg''kk''q''y g''r qqt''{qwtugh00'''

Chygt''uqo gyko g.'j g'r ngcf gf 'y ky 'o g''ci ckp''cpf 'Kcnuq'tgr gcygf " o { ''cti wo gpy.''cpf ''y gp''Ktguwo gf ''uwr r nkecykqp0 ''

{qwtugh'j cxg''q''i kxg''y ku'o qpg{''q''y g'r qqt@''J g''uckf <õCsc'' S ctc¢cvl#'Vj ku'ku''pqv''y gpv{ ''wo cpu="kv'ku''qpg''y qwucpf ''wo cpu@'''

Ky cu'ý kpmkpi 'ý cv'j g'y cpvgf 'vq'i kxg'y gpv{ 'wo cpu'vq'ý g'' r qqt0'Ktghrgevgf 'hqt'uqo gvko g''cpf ''o { ''cpi gt'hcf gf ''cy c{0'Kuckf '' vq''j ko <'õVj gtg'ku''cp'kpuvkwvkqp''j gtg'hqt''j gn kpi ''ý g''qtr j cpu0ö'' J g''uckf <'õK'ku''wr ''vq''{qw0[qw''ur gpf ''kv''cu''{qw'f ggo ''kv'' cr r tqr tkcvg0ö''J g''i cxg''y g''o qpg{ ''vq''o g''cpf ''nghv0' ''

Kr wi'f qy p''y g''dqqm'qh'uwr r necvlqp''cpf ''uvctvgf ''tghrgevlpi 0'Ki'kv'' ku''hqt''y g''ucng''qh'I qf .''y j cv''ku''y g''f khhgtgpeg''dgw ggp''w gpv{ '' wo cpu''cpf ''qpg''y qwucpf ''wo cpuA'Ktgcnk gf ''y cv'y ku''uegpg'' y cu''c''yguv'hqt''o g.''tgo kpf kpi ''o g''y cv'y g''o qvkxg''hqt''pgctpguu'' swt dcj; ''j cf ''pqv''{ gv'dgeqo g''cnkxg''kp''o g0'

Qpg''qh''y g''uki pu''qh''ukpegtkx{ 'ku''y cv'y g''xqnxo g''qh'y qtm''y g'' kpf kxkf wcnu''kpxqnxgf .''y g''r ncegu.''v{ r gu''qh'y qtm''cpf ''ukxwcvkqpu'' o cng''pq''f khptgpeg''hqt''y g''r gtuqp0J ku''qpn{ ''eqpegtp''ku''q''uggm'' y g''r ngcuwtg''qh'I qf ''tgi ctf nguu''qh'y j gy gt'j g''dgpghkwu''htqo ''kv''qt'' pqv.''qt''y g''r gqr ng'y qwrf ''npqy ''qt''pqv.''uwr r qtv'kv''qt''pqv0 ''

Qh'eqwtug. 'j wo cpkxctkcpkuo 'cpf 'f qkpi 'uqo gyj kpi 'hqt''yj g'' r gqr ng''ku'pqdngt''yj cp''gi qvkuo .''dwv''kp''yj g''cdugpeg''qh''c''f kxkpg'' o qvkxg. ''kv'j cu''pq''f kxkpg''xcnvg0

```
Kp 'y g'y qtf u'qh'Uj cj kf 'O wcj j ctk 'y g'o qvkxg'hqt 'pgctpguu''
}swt dcj; 'ku'cp 'guugpvkcn'eqpf kkqp''}uj ct /g'fj cvk; 'cpf 'pqv'c''
eqpvtcewcn'cpf 'f grgi cvgf 'eqpf kkqp="kv'ku'c''etgcvkqpcn'}wmy kpk; "
eqpf kkqp"cpf 'pqv'c''egtgo qpkcn'}wuj t klcvk; 'qpgQ377_''
```

Ki'y g''uc { <'Vj g''eqpf kkqp'hqt'tgcej kpi 'O geec''ku''tcxgtukpi ''y g'' y c { ''q''y g''ekx{.''y ku''ku'c''pcwtcn'cpf ''guugpvkcn'eqpf kkqp.''cpf ''pqv'' c''eqpvtcewcn'qpg0'Uko krctn{.''y g''eqpf kkqp''q''cwckp''y g''uvcvkqp'' qh'pgctpguu''q''Crrej ''ku''vq''j cxg''y g''o qvkxg''hqt''pgctpguu'' swt dcj; ''cpf ''y ku''ku''cp''guugpvkcn'eqpf kkqp0

Vjg'ghgew'cpf 'dngudpiu'qh'c'r wtg'lpwgpwlqp

```
Vj tqwi j "c"ewtuqt { "i ncpeg"cv'ý g"xgtugu"qh'ý g"S wtøcp"cpf "ý g"
Rtqr j gvke" vtcf kvkqpu. "y g"uj cml'hkpf "qwi"o cp { "ghhgewi"cpf "
dnguukpi u"qh"j cxkpi "c"r wtg" kpvgpvkqp. "uqo g"qh"y j kej "y g"uj cml"
o gpvkqp"eqpekugn{ "dgnqy <
```

30°Cp{qpg'y j q'j cu'c'i qqf 'kpvgpvkqp''uj cm'j cxg''cdwpf cpv' r tqxkukqpuQ<u>378_'</u>Rgtj cr u''yj ku''*j cf kj '*o gcpu''yj cv'dgecwug''qh'j ku'' i qqf 'kpvgpvkqp.'j ku''dgj cxkqt''cpf ''tgcvo gpv''qh''r gqr ng''ku'' uqo gj qy ''r ngcucpv''cpf ''pcwtcm{.''o qtg''r gqr ng''y kn''dg''cwtcevgf '' vq''j ku''dwukpguu''cpf ''yi wu''j g''y kn''gctp''o qtg''kpeqo g0

40°C ''i qqf ''kpvgpvkqp''kpetgcugu''o cpøu''uweeguu''cpf ''qr r qt wpkv{." o cngu''j ku''nkhg''r wtg''cpf ''f guktcdng. ''cpf ''y kpu''j ko ''o qtg'' htkgpf u0<u>379</u>_____

F kxkpg'hcxqtu'hqt'kpf kxkf vcnı'f gr gpf 'qp''y gkt'j cxkpi ''c''i qqf '' kpvgpvkqp0'Vj g''r vtgt''cpf ''o qtg''ukpegtg''y gkt'kpvgpvkqp''ku.''y g'' o qtg''f kxkpg'hcxqtu''y g{ ''y km'qdvckp0

```
50 Kki'gpf qy u'nqpi 'nkhg''vq''o cp0
```

```
Ki'ku'pcttcvgf 'kp''y g''tcf kkqpu<'Ki'c''r gtuqp''y j q''lwuv'r gthqto gf "

cll'r kri tko ci g''y qwrf 'kpvgpf ''cpf 'f gekf g''y j gp''j g''ku''tgwtpkpi "

j qo g''vq'' q''vq'' cll'ci ckp''y g''hqmqy kpi "{gct.''I qf ''y km'r tqrqpi "

j ku''nkhg''qp''ceeqwpv''qh''y cv'i qqf ''kpvgpvkqp0<u>37:</u>
```

60°C ''i qqf ''kpvgpvkqp''eqo r gpucvgu'hqt ''qpgøu'r cuv'*ukpu+0'-:Crk'*-:c+" uc {u<'Ki'c''ukppgt'j cxkpi ''c''i qqf ''kpvgpvkqp''tgr gpvu.''I qf ''y kn'' tgwtp''vq''j ko ''y j cvgxgt ''ku''cngp''htqo ''j ko ''cu'c''tgo wpgtcvkqp'' *hqt''j ku'ukpu+.''cpf ''ugv'tki j v'y j cvgxgt''r tqdngo ''j g''o ki j v'j cxg''kp'' j ku'y qtn0<u>37;</u>"

70I qf ''y knii kxg''y g''tgy ctf ''qh'c''i qqf ''f ggf ''q''c''r gtuqp'hqt" kpvgpf kpi ''q''f q''c''i qqf ''cev'gxgp''khij g''cewcm{ 'hckui''q''f q''uq0D{ '' j cxkpi ''c''ukpegtg''kpvgpvkqp.''y g''wphwhkngf ''y qtmi''qh'c''r gtuqp" uj cm'dg''eqwpvgf .''cu''kk'j cu''dggp''pcttcvgf ''kp''y g''vtcf kkqpu<'Ki'c'' hckj hwi'r gtuqp''y qwf ''uc{.'':Ki'I qf 'j cf ''i kxgp''co gpkkgu''q'o g.''K' y qwf ''j cxg''f qpg''y ku''cpf ''y cvø''cpf ''kh''y ku'y kuj ''ku''ukpegtg.''I qf '' y knii tcpv'j ko ''y g''tgy ctf ''qh''y qug''f ggf uQ382_''Gxgp''kh'j g'' ukpegtgn{ ''y kuj gu'hqt''o ctv{tf qo ''cpf ''r tc{u''q'I qf ''hqt''j ku'' o ctv{tf qo .''I qf ''y knii tcpv'j ko ''y g''ucvkqp''qh'c''o ctv{t''y qwi j '' j g''f gr ctwi'htqo ''y ku'y qtrf ''qp''j ku''dgf Q383_''Ky'ku''gpqwi j ''qh'c'' hcxqt''y cv'I qf ''y knii kxg''tgy ctf ''hqt'c''f gekukqp''q''f q'c'' qqf '' f ggf .''dwi'tgi ctf kpi ''cp''kpvgpvkqp''q''eqo o ky'c''up.''J g''y kni'pqv'' ugv'c''r wpkuj o gpv'hqt''ky'wprguu'ky'ku''cewcm{ ''f qpgQ384_''

80°C 'r wtg'kpvgpvkqp'ecp'o cng'y g'o quv'o cvgtkcrkuvke'chhcktu'qh' nkhg'c'o gcpu'hqt'o cpøu'pgctpguu''}*s wt d*; 'vq'Cncj 0°Kp'y g'uco g'' o cppgt. ''y g''o quv''ur ktkwcn'uvcvgu''uwej ''cu''r tquvtcvkqp''}uwlwf; '' cpf ''y ggr kpi .''kh''y g{ ''ctg''o qvkxcvgf ''d{ ''quvgpvcvkqp''} $tk c \phi$.''y km'' wtp''kpvq''c''o gcpu''qh'f tkhvkpi ''cy c{ ''htqo ''I qf 0 ''

Y g'tgcf 'kp''y g''tcf kkqpu<'Lwuv'cu''y g''dqf { 'j cxkpi 'c''uqwi'ku'' htto .''tgrki kqp'y ky 'c''ukpegtg''kpvgpvkqp''ku''htto Q<u>385_</u>''J cxkpi 'c'' r wtg''j gctv'cpf 'i qqf ''kpvgpvkqp''ctg''co qpi ''y g''f kxkpg''cuugvu''cpf '' vtgcuwtgu.''cpf ''y g''dgvgt''y g''kpvgpvkqp''y g''o qtg''y g''xcnwg''y ku'' vtgcuwtg'y kn'j cxgQ<u>386_''</u>J cxkpi ''c''ugtkqwu''kpvgpvkqp.''f gekukqp'' cpf ''y km'r qy gt''y km'o wnkr n{ ''y g''r j {ukecn'cdkrkv{ ''qh'o cp0 ''

```
Ko co "c / cf ks "*\div+"uc {u<"õQp"'y g"F c{ "qh"T guwtt gevkqp."I qf " y km"i tqwr "'y g"r gqr ng"ceeqtf kpi "'q"'y g"kpvgpvkqpu"'y g{ " j cxg0ö]387_
```

Hqt"qpg'y j qug'cko 'ku'y g'r gthqto cpeg'qh'c'f w{.'kv'ku'pqv' ko r qt vcpv'hqt'j ko 'y g'v{r g'qh'y qtn'cpf 'ku'qweqo g0'Cu'y g'' S wt¢cp'uc{u.

õCpf 'ý j qgxgt 'Hi j vu'hp 'ý g'ý c{ 'qh'Cncj . 'cpf 'ý gp 'hu'urchp 'qt '' eqps wgt u. 'luqqp 'Y g'lj cntl kxg'j ko 'c'l tgcv'tgy ctf @]388_ "

"

"

Y j cv'ku'ko r qt vcpv'ku'vq''ut wi i ng'kp''y g''y c{ "qh'I qf."dw'cu''q" y j gy gt 'ku''qweqo g''ku''f ghgcv''qt ''xkevqt{ ''j cu''pq''ghhgev''qp''y g'' f kxkpg''tgy ctf 0'Kp''cpqy gt ''r nceg. ''y g''S wt¢cp''ucvgu<

õCpf 'ý j qgxgt 'hgcxgu'j ku'j qo g'b ki tcvhpi 'hqy ctf 'Cnncj 'cpf '' J ku'Cr quang. 'cpf 'ku'lj gp 'qxgt vcmgp 'd{ 'f gc vj . 'j ku't gy ctf 'lj cm'' egt vc kp n{ 'hcmlqp 'Cnncj (b] 389_

Kv'ecp''cnuq''dg'tgcf kn{ 'kphgttgf 'htqo ''ý ku''xgtug''ý cv'kh''c''r gtuqp'' ngcxgu'j ku'j qo g''hqt''ý g''ucng''qh'I qf .''gxgp''ý qwi j 'j g''f qgu''pqv'' tgcej ''j ku'f guvkpcvkqp.''j g''y qwrf ''dg''tgy ctf gf 0'Y j cv'ku''ko r qtvcpv' ku''ý g''køvgpvkqp''dgj kpf ''ý g''cev'cpf ''pqv'y g''cev'kwgh0'Y j cv'ku'' ko r qtvcpv'ku''q''vcng''c''uvgr ''cnqpi ''ý g''y c{ ''cpf ''pqv'tgcej kpi ''ý g''

```
fguvkpcvkqp0
```

Vj g'O guugpi gt''qh'Cmcj '*U+'uckf ''vq''Cdw'F j ctt <õF gekf g''vq'f q''c'' i qqf 'f ggf ''y qwi j ''{qw'o ki j v'pqv'uweeggf ''kp''f qkpi ''uq='hqt.''kv''ku'' y ku'f gekukqp''y cv'y km'vcmg''{qw'qw'htqo ''y g''ekteng''qh'y g'' pgi ngevhwf0j38:__

Y g'tgcf 'lp''cpqyj gt''*j cf kj* <õCp{ 'f ggf 'y j kej 'ku''ceeqo r cpkgf " d{ 'c'f kxkpg''lpvgpvkqp''ku'i tgcv'gxgp''kh'yj cv'y qtm'ku''uko r ng''cpf " vtkxkcn0j<u>38;</u>"

Qp''y g''eqpvtct{.''y g''o quv'ko r qtvcpv'f ggf u.'kh'y g{''ctg''pqv'' dcugf ''qp''eqttgev'kpvgpvkqpu.''j cxg''pq''xcnvg0'Vj g''Rtqr j gv'*U+'' uckf <'öO quv'qh''y g''o ctv{tu''qh''o {''wo o cj ''y km'f gr ctv'htqo ''y ku'' y qtnf ''y j krg''n{kpi ''qp''y gkt''dgf u''y j krg''y gtg''ctg''o cp{''y j q''y km'' dg''nkmgf ''qp''y g''dcwrghkgnf ''dwy'I qf ''ku''cy ctg''qh''y gkt'' kpvgpvkqpu0b]392_

F wtkpi ''y g''Vcdwn'gzr gf kkqp. ''y g''J qn{ ''Rtqr j gv'qh''Knco ''*U+'' uckf <õKpf ggf .''y qug''y j q''ctg''kp''O gf kpc''dw''y kuj ''vq''r ctvkekr cvg'' y kj ''wu''kp''y g''dcwrghkgrf ''uj cm''uj ctg''kp''y g''ur ktkwcn'tgy ctf ''qp'' ceeqwpv''qh''y cv'kpvgpvkqp@]393_

Cnıq. "kp"cpqyi gt "ttcf kkqp"y g"tgcf <"Cp{qpg"y j q"i qgu"vq"j ku"dgf " y kj "y g"kpvgpvkqp"qh"y cmkpi "wr "vq"uc{"y g"pki j v"uwr gtgtqi cvqt{" r tc{gtu. "kh"j g"tgo ckpu"kp"j ku"dgf "cpf "ku"pqv"cdng"vq"y cng"wr ." I qf "y km"vtgcv"j ku"unggr "cu"ej ctkv{"cpf "j ku"dtgcyi kpi "cu" i nqtkhkecvkqp"*qh"I qf +" $\}wudk$; "cpf "i kxg"j ko "y g"tgy ctf "qh" uc{kpi "y g"pki j v"uwr gtgtqi cvqt{"r tc{gtuQ394_"

Ki'ku'pqv'y ký qwi'tgcuqp''ý cv'y g'j cxg''dggp''cf o qpkuj gf ''q'j cxg'' ucetgf ''cko u''gxgp''kp''gcvkpi ''cpf ''unggr kpi (<u>1395</u>''Cpf ''kh''{ qwi'nqxg'' c''r gtuqp''hqt''ý g''ucmg''qh'I qf ''cpf ''ko ci kpg''j ko ''cu''c''i qqf '' r gtuqp.''gxgp''kh'j g''ku''cewcm{ ''c''f y gmgt''qh'j gm''{ qw''ctg'' gzewugf (<u>1396</u>

Vjg'rtggolpgpeg'qhlpvgpvkqp'}pk{{cj;'qxgt'cevkqp'}∹cocq "

Vj g''r tggo kpgpeg''y g''kpvgpvkqp''dgj kpf "cp"cevkqp''r quuguugu''qxgt" y g''cevkqp''kugn'i'ku''y cv'kp''y g''r gthqto cpeg''qh''cevkqp. "uqo gvko gu'' quvgpvcvkqp''}*t k{ c ø*j "cpf ''uj qy kpi "qhh''ctg''cv'y qtm''dwi'kp''y g'' kpvgpvkqpô ukpeg''kv'ku''cp''kppgt''o cvvgt''cpf ''j cu''pq'''qwy ctf '' cr r gctcpegô y gtg''ku''pq''r rceg''hqt''quvgpvcvkqp. ''uj qy kpi ''qhh''cpf '' y g''hkng0'Vj g''qvj gt''cf xcpvci g''qh''kpvgpvkqp''qxgt''cevkqp''ku''y cv'kk'' ku'cny c{u'r quukdrg'kp''cm'r rcegu''cpf 'tgs wktgu''pq'r ctvkewrct" eqpf kvkqpu. ''dw'r gthqto cpeg''qh''cp''cevkqp''tgs wktgu''o cp{" r tgtgs wkukvgu''cpf ''eqpvkpi gpekgu0 "

Kp''y g''tcf kkqpu.''y gtg''ku'c''ecvgi qt { "mpqy p''cu'`õo *cp''dcnc -*ö'' tcf kkqpu0'Vj ku'i tqwr ''qh''tcf kkqpu''uvcvgu<**'Ki**'uqo gdqf { ''j gctu''c'' tcf kkqp'y j kej ''uvcvgu''y cv'uwej ''cp''cev'j cu''c''tgy ctf ''cpf ''j g'' r gthqto u'kv.'I qf ''y km'i tcpv'j ko ''y cv'tgy ctf ''gxgp''kh''y cv'' tcf kkqp''ku''pqv'eqttgev0'Ki'ku''dgecwug''qpg''y j q''j cu''f qpg''uq''f kf ''kv'' y kj ''c''i qqf ''kpvgpvkqp0

Vj g'f gi t ggu'qhllpvgpvlqp

30'Uqo gvko gu. 'hgct"qh'f kxkpg"y tcyj "qt"f guktg"hqt"f kxkpg"hcxqt" r tqo r wi'o cp"vq"r gthqto "cp"cev0'Cu''y g'S wt¢cp"uc {u'kp"'y ku" tgi ctf. "õ*Cpf 'lwr r hec vg'J ko 'y kj 'hgct 'cpf 'j qr glö*]<u>397</u> Cpf "kp"cpqyj gt"r nceg. "y g'S wt¢cp"uvcvgu<"õ*Cpf 'lj g{ 'y qwnf* '' *uwr r hec vg'Wu'y kj 'gci gt pguu'cpf 'cy glö*]<u>398</u>.

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40°C 'j ki j gt 'f gi tgg''qh'kpvgpvkqp'ku'vj cv'o cp'r gthqto u'cp''cev'qp'' ceeqwpv'qh'i tcvkwf g'hqt'J ku'hcxqtu'y j gy gt 'j g''gctpu'tgy ctf ''qt'' r wpkuj o gpv'htqo 'I qf 0°Cu'J cf tcv'÷Crk'*÷c+'uc{u<'

õGxgp"kh'Cmcj 'j cf 'pqv'y ctpgf ''qh''y g''ej cuvkugo gpv''qh''y qug'' f kuqdgf kgpv''vq''J ko .''kv'y cu''qdnki cvqt { ''d { ''y c { ''qh''i tcvghwpguu'' hqt''J ku'hcxqtu''y cv'J g''uj qwrf ''pqv''dg''f kuqdg{ gf 06]399_ ''

50°Cp"gxgp"j ki j gt"f gi tgg"qh"kpvgpvkqp"ku'vj cv'y ky qwv"f guktkpi " r ctcf kug"cpf "dgkpi "chtckf "qh"j gm"o cp"y qtuj kr u'I qf "cu"j g" tgi ctf u'J ko "cu'vj g"qpn{ "Dgkpi 'y qtvj { "qh"y qtuj kr "cpf " cf qtcvkqp0

60'Vj g'j ki j guv'f gi tgg"qh'kpvgpvkqp'ku'vj cv'vj g"nqxg'hqt'I qf" f tkxgu'o cp'vq'r gthqto "cp'cev0'Kp'vj ku'tgi ctf." \div Cnk'* \div +"eqpukf gtu" j ku'nqxg'hqt'f gcvj "cpf "o ggvkpi 'Cmcj "cu'o qtg'kpvgpug'vj cp'vj g" hqpf pguu'qh'cp'kphcpv'hqt'vj g"dtgcuv'qh'ku'o qvj gt0<u>39:</u>'Cpf" J cf tcv'cn'S cuko .''uqp"qh'Ko co ''J cucp''cn'O wlvcdc'* \div +''uc{u'kp'' Mctdcmø<fõHqt''o g.''f gcvj ''kp''vj g''y c{"qh'I qf ''ku''uy ggvgt''yj cp'' j qpg{06

Vjg't qıg'qhlip vgp viqp'qp'ijg'r gpc niku wgu

Qp''y g''s wguvkqp''qh''r wpkuj o gpv. 'Kurco ''cnuq''vcmgu''o qvkxg''cpf '' kpvgpvkqp''kpvq''ceeqwpv0

Eqpegtpkpi "o wtf gt." y g'r gpcn{ 'hqt"c"r gtuqp"y j q"nkmu"cpqy gt" kpvgpvkqpcm{ 'ku"f kuvkpev'htqo "y g"r gpcn/{ 'hqt"qpg"y j q"nkmu" cpqy gt "wpkpvgpvkqpcm{ 0Gcej "qh"y gug"y q"ecugu"j cu"kxu"qy p" r ctvkewnct"twnkpi 0<u>39;</u>

Y ký "tgi ctf "vq"uy gctkpi "cp"qcyj ."ý g"S wtøcp"cnuq"uc {u< "

"

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" `aaa â `æaaã`aããã á `

õCncj 'lj cnlþqv'\cng'{qw'\q'\cumhqt 'yj cv'ku'\wpeqpulf gt gf 'kp'' {qwt '4cvj ubj<u>3: 2_</u>

Vj gtghqtg."kh'uqo gqpg'i kxgu"cp"qcyj "dwv"j g'j cu"pq"ugtkqwu" kpvgpvkqp"cpf "o qvkxg."j ku"qcyj "j cu"pq"xcnvg0

I pquku'}o c÷tkhcj;'cu'vjg'rtgnkokpct{'invgr'vqyctf'vjg'' kpvgpvkqp'hqt'pgctpguu'}swtdcj;

Vj g'dguv'y c{ "qh'ces wktkpi ''y g''o qvkxg''hqt "pgctpguu"}s wt dcj; ''vq" Cmcj ''cpf ''c''r wtg''kpvgpvkqp''ku''i pquku''} $o c \neq klcj$; ''cpf ''eqi pkkqp0

~~~~Ki'y g''qpn{ ''npgy .''ces what kpi ''y g''gpf gcto gpv''qh''r gqr ng''ku'' kp''y g''j cpf u''qh''I qf 03:3

~-----Ka'y g''qpn{ ''mpgy .''j qpqt''cpf ''r qy gt''ctg''qpn{ ''y tqwi j '' J ku''j cpf uQ<u>3: 4\_</u>

~"""Ka'y g''qpn{ ''mpgy .''dgpghk''cpf 'j cto ''vq''wu''ctg''pqv'kp''y g'' j cpf u''qh''qy gtu03:5

~""""Ka'y g''qpn{ "mpgy .''y qtmlhqt''y g''ucmg''qh'I qf 'j cu'' uqo gvko gu'f qwdng.''ygp''vko gu.''qt''ugxgpv{ ''vko gu''kw''tgy ctf 0' Uq.''y g''uj qwrf ''pqv'y qtmlhqt''y g''ucmg''qh''qy gt''y cp''J ko 0 ''

```
~ """Ki'y g''qpn{ "npgy .''y g''gngxcvkqp''qh''uqekcn'uvcwu'f qgu''pqv''
o gcp''i nqt { ''dgecwug''dnceni'uo qng''cnuq''i qgu''wr#
```

```
~"""Ki'y g"qpn{ "npgy .''y g"cwgpvkqp"cpf "qr kpkqp"qh'y g"
r gqr ng"'vq'wu'j cxg"pq"xcnwg"dgecwug"kh'cp"gngr j cpv'y qwnf "
```

r cuu''d { ''y g''uvt ggv.''gx gt { dqf { ''y km''cnuq''nqm''cv''kv#

~"""Ka'y g''qpn{ "mpgy .''y g''y qwrf ''r c { ''cwgpvkqp''vq''y g''r gt ku'' cpf ''ki pqo kpkgu''qh''qwt ''quvgpvcvkqpu#

 $\sim = K_1 y g''qpn\{ "npgy .'y gtg'y km'dg'c'fc{ 'hqt'wu'y j gp''qpgøu'' ecm'y km'pqv'tgcej 'y g''qy gt "cpf "qpn{ 'y qug'y j q'j cxg''uqwpf " j gctw''uj cm'cwckp''f grkxgtcpegQ3: 6_$ 

~"""Cpf 'kh'y g''qpn{ ''npgy 'y j cv'xcnwgu'y g''uj cm''nqug''d{ " j cxkpi "eqttwr v'kpvgpvkqpu. 'y g''y qwrf ''r tgr ctg''qwtugnxgu''hqt" y g''ukpegtg''r gthqto cpeg''qh''y qtm'dcugf ''qp''y g''o qvkxg''qh'' pgctpguu''}*s wt dcj*; ''vq''Cmcj 0

#### Vjg'ghgew'qh'eqt twrv'kpvgpvkqpu

"

"

Eqpenvef kpi ''y g''f kuewuukqp''qp''kpvgpvkqp.''y g''uj cm'cnuq''ekg''y g'' cf xgtug''ghhgevu''qh'j cxkpi ''eqttwr v'kpvgpvkqpu.''lwuv''cu''y g''gctnkgt'' uvcvgf ''y g''dnguukpi u''qh''c''uqwpf ''kpvgpvkqp0

```
30P qp/ceegr vcpeg"qh'uwr r nlecvlqp"}f w \neq \phi 0Ko co "cu/Ucllcf" 
*\neq +"uc{u<foC"dcf "kpvgpvlqp"ecwugu"y g"pqp/ceegr vcpeg"qh"
uwr r nlecvlqpu0j]3: 7_"
```

J cxkpi "cp"wpi qf n{ "kpvgpvkqp"pqv"qpn{ "tgo qxgu"yi g"f kxkpg"eqnqt" cpf "f gxqvkqpcn"pcwxtg"qh"cevkqpu="kv"cnuq"gpvckuu"r gtkuu0 "

```
Ko co "c / cf ks "*:\dot{c} +"uc {u<õKa'uqo gdqf { "dqttqy u"c"egtvckp"
co qwpv"qh"o qpg{ 'y kij qwi"y g"kpvgpvkqp"qh"tgwtpkpi "kv."kv"ku"
gs wkxcngpv"vq"uvgchpi 0\dot{o}]3: 8_"Uko krctn{."kh"kp"o cttkci g"y g"
r gtuqp"j cu"pq"kpvgpvkqp"qh"i kxkpi "y g"f qy gt"}o cj tk{{cj; "vq"j ku"
y khg. "kp"y g"uki j v"qh"I qf "j g"ku"eqo o kwkpi "cf wngt { "}/kpc; 0]3: 9_"
```

```
40F gr tkxcvkqp"qh'uwuvgpcpeg"}t k/s; 0Ko co "c / cf ks "*\div +'uckf <" õUq"o cp{"dgrkgxgtu"j cxg"vj g"kpvgpvkqp"qh"eqo o kvkpi "ukp"cpf" I qf "f gr tkxgu"vj go "qh'uwuvgpcpeg"}t k/s; 0ö
```

```
Cp"cewcn'gzco r ng"qh'ý ku'j cf ky "ku'ý g"uvqt { "qh"c"i ctf gp"y j kej " j cu'dggp"pcttcvgf "kp"ý g"S wt¢cp<
```

```
Kp"Uwt cj "cn/S cnco."xgtugu'38/52."ý gtg"j cu"dggp"pcttcvgf "ý g"
uvqt { "qh"c"r gqr ng"y j q"qy pgf "c"i ctf gp"cpf "y j q"kpvgpf gf "vq"
```

j ctxguv'ku''{kgnf u'kp''y g'f ctm'uq''y cv''y g'r qqt''y qwrf 'tgo ckp'' wpcy ctg''qh''y gkt''cevkqp''cpf ''y g{ ''y qwrf ''pqv'j cxg''vq''i kxg''cp{ ''qh'' y g''htwku''vq''y go 0'

Cu'y g'f cy p'eco g'y g{ 'y gpv'vq'y g'i ctf gp0'Vj g{ 'ucy 'y cv'y g'' i ctf gp'j cf 'dggp'dwtpgf 'cpf 'wtpgf 'kpvq'cuj gu0'Kpkkcm{.'y g{ '' ko ci kpgf 'y cv'y g{ 'j cf 'nuv'y g'y c{.'dw'y g'y kuguv'co qpi '' y go 'uckf <õF kf 'Kpqv'tgo kpf ''{qw'pqv'vq'j cxg'uwej ''cp'' kpvgpvkqpA'[ qw'j cf 'y g'kpvgpvkqp''qh'f gr tkxkpi ''y g'r qqt0'P qy .'' I qf ''f gr tkxgf ''{qw'qh'kv'cu''y gm0o

Htqo ''y ku'S wtøcpke''ceeqwpv.''kv'ecp''dg''wpf gtuvqqf ''y cv'' uqo gvko gu'I qf ''i kxgu''c''uqtv'qh'r gpcnv{ ''qp''ceeqwpv'qh''qwt'' o qvkxg''cpf ''kpvgpvkqpQ<u>3::\_'</u>'Qh''eqwtug.''y ku''ku''pqv'c''i gpgtcn'' twrg0"'''

50'Kt'ecwugu''y tgvej gf pguu''cpf ''o kuhqtwpg0'J cf tcv':Cnt'\*:c+'' uc {u<' $\delta$ C''eqttwr v''kpvgpvkqp''ku''c''uki p''qh''y tgvej gf pguu0; ]3:; \_\_\_\_'

"

Vj cv'ku. 'I qf 'y km'vcmg''cy c{ 'y g''dnguukpi 'htqo 'y g''r gtuqp'' y j qug'kpvgpvkqp'ku''pqv'uqwpf ''cpf 'j g'y km'pqv'dg''cdng'vq''o cng'' i qqf ''wug''qh'f kxkpg'hcxqtuQ<u>3; 2</u>.

Ki ku'pcttcvgf 'ý cv'kv'y cu'uckf 'vq'uqo gqpg<õQp''ceeqwpv'qh''{qwt'' i qqf 'y qtm''{qw'j cxg''y tgg''ceegr vcdrg''uwr r necvkqpu06''J g'y cu'' i rcf ''cpf ''uckf<õQ''I qf #'O cng''o { ''y khg''y g''o quv'dgcwkhwn'' y qo cp'kp''y g''y qtrf 06''J ku'y khg''dgeco g''xgt { ''dgcwkhwn'dwv'j ku'' nkhg''dgeco g''dkwgt ''dgecwug''j g''gcnk gf ''y cv'gxgt { qpg'y cu'' uvctkpi ''cv'j ku'y khg0J g''y gtghqtg'o cf g'j ku''ugeqpf ''uwr r nkecvkqp<'' õQ''I qf #'O cng''o { ''y khg''y g''wi nkguv'y qo cp''kp''y g'y qtrf 06''

J ku'uwr r necvkqp'y cu'i tcpvgf 'dwi'j ku'nhg'dgeco g'kpvqngtcdng'' y kj 'uwej ''cp''wi nkpguu0'Uq. 'j g''o cf g''j ku''yi ktf ''cpf ''ncuv''ceegr vcdng'' uwr r necvkqp.''uc{kpi <õQ'I qf #'Ngv'o { ''y khg''tgwtp''q''j gt'' qtki kpcn'eqpf kkqp0ö''J ku''uwr r necvkqp''y cu'j gctf ''cpf ''j ku''y khg'' tgwtpgf ''vq''j gt''qtki kpcn''ucvg0J g''o cf g''j ku''yi tgg''ceegr vgf '' uwr r necvkqp''dwi'j g''gctpgf ''pq''dgpghkv''cv''cm0'Vj ku'ku''yi g''o gcpkpi '' qh''vcmpi ''cy c{ ''dnguukpi u'htqo ''c''r gtuqp''cpf ''cu''uwej .''j g''ecppqv'' o cng''i qqf ''wug''qh''yi g''ncekrkvkgu''cv'j ku''f kur qucn0' <u>]343\_</u>"*Dk ct "cn'Cpy ct*."xqr092."r 04320

..

]<u>346\_</u>"*Ow cllcj "cn/Dc{ cø*."xqr0": ."r 03260

<u>]347\_</u>"*Dk ct "cn/Cpy ct*."xqr094."r 0; 50

<u>]348\_</u>"*Dk ct "cn'Cpy ct*."xqr092."r 04320

<u>]349\_</u>'*Ow cllcj ''cn/Dc{ cø*.''xqn0': .''r 03260

<u>]34: \_''Dk ct ''cn'Cpy ct</u>.''xqt097.''r 03770

<u>]34; \_</u>"Unt cj "cn'Cphcn": 60

<u>]352\_</u>"Uwt cj 'Crl'<del>:K</del>o t cp''5<3850

<u>]353\_</u>"Uwt cj "cv/Vcmy kt": 3∢430

<u>]354\_</u>"*Vco cuj ci cj /g'Tc/*."r 03360

<u>]355\_</u>''*Uwt cj ''cn'*-*Cpmc dwv*'4; **8**70

<u>]356\_</u>"*Dk ct "cn'Cpy ct*."xqr092."r 03: 80

 $357_{Oc + wo kp < y qug'r quuguukpi 'y g's works{ 'qh' + kuo cj = kQO''$ 

y g'Rtqr j gv. 'Hevko cj. "cpf 'vj g''Vy gr $\kappa$ g''Ko co u'\* $\div$ e+0'Ugg"*C'Dt kgh' J kuqt { ''qh'vj g'Hqwt vggp 'Kphc mkdngu*. "5tf ''gf 0\*\*Vgj tcp<'Y QHKU."

4223+0j wr dly y y Oen'kurco Oqti kltkgh'j kwqt{/qh'hqwtyggp/kphenkdngu"

}VtcpuQ

<u>]358\_</u>"*Dk ct "cn'Cpy ct*."xqr063."r 0360

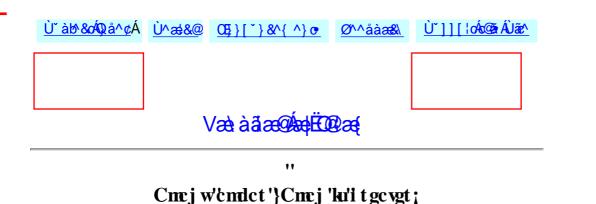
]359\_'Mj y clcj 'Uj co u'cf/F kp'O wj co o cf 'J chk 'Uj ktc| k'\*ec0' 3547/35; 3+'y cu'vj g'hqwtvggpvj ''egpwt { 'Rgtukcp'h{ tke'dctf ''cpf '' r cpgi { tkuv.''cpf ''eqo o qpn{ ''eqpukf gtgf ''cu'vj g''r tggo kpgpv'' o cuvgt''qh'vj g''*i j c/cn*'hqto 0'} VtcpuQ

<u>]35; "Octclk:"cv/Vcsnlf</u> "\*ukpi 0'Octlc:"cv/Vcsnlf +<'fksgtcm{"

o gcpu'õUqwtegu''qh'Ko kcvkqpö0'Octclk-"ctg''y g"-*mco cø*'y j q" j cxg'tgcej gf 'y g'r qukkqp''qh'*Octlc -k{ {cj ''}*Tgrki kqwu'Tghgtgpeg'' Cwj qtk/; 'dgecwug''y g{ 'j cxg'r quuguugf 'uwej 'ej ctcevgtkuvkeu''cu'' lwukeg."r kgv{."uwr gtkqt"mpqy ngf i g."cy ctgpguu"cpf "dgkpi " qdrlxkqwu'\q'y qtrf n{ "r quuguukqpu0Vj g"cxgtci g"r gqr rg"tghgt '\q" y go "'q'hkpf "cpuy gtu''q''y gkt "tgrki kqwu'r tqdrgo u. "cpf "'q'hqmqy " y gkt 'tgrki kqwu'f getggu0'} VtcpuQ 362\_'Cu'pcttcvgf 'd{ 'C{cwmcj '' chło 363 "Unt cj "J wf "33="Unt cj "cn/Owm?8940 <u>]364\_</u>'Uj co ''qt ''Uj co cv<'wr ''wpvknlhkxg''egpwtkgu''ci q. ''kpenwf gf '' U{tkc"qh'vqfc{."Ngdcpqp"cpf "r ctw"qh'Lqtfcp"cpf "Rcnguvkpg0" }VtcpuQ ]<u>365\_</u>"Uutcj "cn/Oc¢lf cj '7*⊲*70 ]366\_"Uwt cj "cp/Pwt "465; 0  $]367_{Hqt}$ "gzco r ng. "Unt cj "cn/Dcsctcj "4 $\Im$ ; 20 ]368\_'Hqt'kpuvcpeg."Unt cj "cn'Kpucp"\*qt."cf/F cj t+'98 $\leq 0$ 369\_"Untcj "cn/Dcsctcj "4429"cpf "qy gtu0 ]36: \_'Hqt"gzco r ng."Unt cj "cv/ kp"; 7 $\ll$ ='Unt cj "cn/-:C t"325 $\leq$ ."cpf" o cp{ ''qyj gtu0'} VtcpuQ **]36**; \_"Uwtcj "cp/Pcj n'38<,90 372\_"Owacftcm'cn'Y cuc\$n"j cf kj '68; 80 <u>]373\_</u>"Uwt cj "cn'-Cdcuc": 2<3/320 ]374\_"Untcj "cn/Oc¢kf cj "7⊲60 <u>]375\_</u>"Uwt cj "cn/C / cd"55<; 0  $]376''V o p < gxgt { "v o p"ku" gs wkx cngpv" vq "vgp" K cpkcp" t kcnu0"$ }VtcpuQ  $]377_{Ugg}'O$  wtvcf c'O wcj j ctk''Y cm/j c''xc''Y km{cv/j c.''rr0' 4: 2/4: 50 Hqt"y ku"dqqmøu"Gpi nkuj "tcpuncvkqp."ugg"O wtvcf c'O wcj j ctk" Ocust "cpf "Ocust uj kr "\*Mctcej ke Kurco ke Ugo kpct {" Rwdnkecvkqpu."pff 0+."ej cr 09."õY cm "qh'Eqpvtqnö"cxckrcdng"qprkpg" cv<sup>i</sup> wr dly y y lon kurco lqti lo cuvgtuj kr 0'} VtcpuQ  $378'Y cuc \phi n'cuj / Uj k \div cj .''xqn03.''r 0'5; 0$ 379'' j wt ct "cn' km co 0 ]<u>37: \_'</u>Y cucøkilcuj /Uj k÷cj .''xqr0': .''r 03290 ]37; \_'Pcj l'cn/Dcnci j cj .'Ugto qp''39: <\otimes D\{ 'Cncj .''pq''r gqr ng'' ctg'f grtkxgf "qh'y g'r ngcuwtgu'qh'nhg"chygt "gplq { kpi "y go ."gzegr v" cu'c'tguwn/'qh'ukpu'eqo o kwgf "d{ 'vj go .''dgecwug''egtvckpn{ 'Cmcj '' ku'pqv'wplwuv'vq'J ku'etgcwtgu0Gxgp''y gp.'y j gp'ecnco kkgu'' f guegpf 'wr qp'r gqr ng'cpf 'r ngcuwt gu'f gr ctv'ht qo 'y go .'y g{ 'wt p'' vqy ctf u'Cmcj 'y kj 'y g't wg'kpvgpvkqp'cpf 'y g'hggnkpi 'kp'y gkt'' j gctvu. 'J g'y knitgwtp'gxgt { y kpi 'y cv'xcpkuj gf 'htqo 'y go 'cpf "

ewtg"cm'y gkt"km0ö 382\_'Y cuc¢kr/cuj /Uj k÷cj .''xqr03.''r 0′620 383\_'Dk ct "cn'Cpy ct."xqn092."r 04230 384''Y cuc dv/cuj / Uj k+cj .'xqr03.'r 0620<u>]385\_</u>"*Dk ct "cn/Cpy ct*."xqn09: ."r 05340 <u>]386\_''I j wt ct "cn'</u> 387 "S c ct"cn/Lco cn 388 "Unt cj "cp/Pkucø'6<960 389\_"Unt cj "cp/Pkucø"63220  $38: \_'Y cuc \phi n'cuj / Uj k \neq j .''xqn03.''r 05; 0$ 38; \_'Y cuc \$kd'cuj /Uj k÷cj .''xqr03.''r 0': 90  $392''Ow cllcj ''cn/Dc { co''xqn0': .''r 03250$  $393_{Ow} cllcj 'cn/Dc \{ co'xqn0': .'r 03260$ 394\_"Dk ct "cn/Cpy ct."xqr092."r 04280 ]395\_"Y cuc¢krl'cuj /Uj k÷cj ."xqr03."r 0570  $396''Ow cllcj ''cn'Dc { co'xqn06''r 05960}$ <u>]397\_''Untcj ''cn'C</u>#ch'9</80 <u>]398\_</u>"Uwt cj "cn'Cpdk{c\$'43<20 **399** "*Pcj l"cn/Dcnci j cj*."Uc{kpi '4; 20 ]39: \_''*Pcj l''cn/Dcrci j cj* .''Ugto qp'70 ]39; "Unt cj "cp/Pkuc  $\phi$ '6< 4/; 5<" $\tilde{o}$ Cp { qp g'y j q'hknu'c 'dghgxgt '' d{ 'b kuxcmg'lij qwnf 'lgy'lt gg'c 'dgnlgxkpi 'lnc xg. 'cpf 'r c{ '' drugf/o qpg{'iq'j ku'\*y g'xkevto øu+'hco kr{.'wprguu'ij g{'tgo kv'k'' kp 'ej ct ks{i 'Uj qwnf 'cp { qp g'hhnlc 'dghgxgt 'kp vgp vkqp c m{.'j ku'' tgs which tij childg'] gm'iq't go chp 'hp 'hv'}hqt gxgt ;='Cmcj 'lij childg'' y tcy hwhćv'j ko 'cpf 'ewtug'j ko 'cpf 'Jg'lij chirtgretg'hat'j ko '' c'i tgcv'r wpkuj o gpv0b ]3: 2\_"Uwtcj "cn/Dcsctcj "4<4470 3:3\_"Untcj 'Katcj ko '3659<"  $\overline{O}Qwt$  'Natf#'i Uq'b cmg'y g'j gctvu'' ahc'r ctv'ah'y g'r gar ig'hypf 'ah'y go '\*Cdtcj co øu'' fguegpfcput+'cpf'rtqxkfg'ij go 'y kj 'htwku 'ij cv'ij g{'b c{'' i kxg'ij cpmlb ]3: 4\_"Uwtcj "cn/Dcsctcj "4⊲3870 <u>]3: 5\_</u>"*Owpclcv*"*cuj* /*Uj c* -*dcpk*{ {*cj* 0  $3: 6_{Ut} = \frac{1}{2} \sqrt{U} + \frac{1}{2}$ Tguwttgevkqp+'y j gp'pgky gt 'y gcnj 'pqt''ej kftgp''y kn/cxckn'' gzegrv'j ko "y j q"eqo gu'\q'Cncj "y kj "c'uqwpf 'j gctv0ö ]3: 7\_"Uwtcj "cn/Cpy ct."xqn092."r 05970  $3: 8'Y cuc \phi n'cuj / Uj k \div cj$ . 'xqn034.'r 0': 80 3: 9\_"Y cuc dkd'cuj /Uj k÷cj."xqr037."r 0440 ]3::\_\_''Uqo gqpg''y wu'pcttcvgf ''vq''o g<'õKo gv'qpg''qh''y g'f kucdrgf '' y ct'xgygtcpu'\*f wtkpi 'y g'3; : 2/: : 'Ktcsk'ko r qugf 'y ct'ci ckpuv'

Kcp+.'y j q'y cu'ukvkpi 'kp'c'y j ggnej ckt0Kcr r tqcej gf 'cpf 'nkuugf " j ko 0Cu'j g'uo gngf 'o { 'r gthwo g.'j g'cungf 'o g'vq'i kxg'j ko 'o { '' r gthwo g0Kuckf <'-Ky kn'dw{ 'qpg'hqt"{qw'cpf 'Ky kn'nggr 'y ku'' qpg0/Cv'cp{ 'tcvg. 'Kf kf 'pqv'i kxg''kv'vq'j ko ''cpf 'y g'r ctvgf 'y c{u0' Cp'j qwt 'ncvgt. 'Ky gpv'vq'y g'vqkrgv'cpf 'y g''dqwrg''qh'r gthwo g'hgm' kpvq'y g'vqkrgv'dqy n0Cm'qh'c'uwf fgp. 'Ktgcnk gf 'y cv'y ku'y cu'c'' r gpcn{ 'hqt'o { 'uvkpi kpguu''cpf 'tki j v'y gtg. 'Ky gr v'hqt'o { '' \*o kugtcdrg+'uvcvg0''[ gu.'y g''y kn'uwr r qug'vq''j cxg'uq''o wej '' tgi tgv'cpf 'tgo qtug''qp''y g'F c{ ''qh'Tguwttgevkqp''ukpeg''y g''j cxg'' f qpg''pqy kpi 'hqt''I qf 0' ]3: ; \_'I j wtct''cn' knco.'' cf kj ''38370



Vj g'hktuv'wwgtcpeg''y j kej 'ku''qdrki cvqt { 'hqt''y g''r kri tko u''} *wllcl*; " vq''y g''J qwug''qh'I qf 'ku''y g''tgekscri'qh'*rcddc { m*<u>]3; 3\_'</u>'y g''tgekscri'qh'' y j kej ''uki pcru''y g''eqo o gpego gpv''qh''y gkt " *cll'*tkwcru''cpf ''y ku'' uvcvg''cruq''o crugu''c''ugtkgu''qh''y kpi u'hqtdkf f gp'hqt''y go 0 "

יי יי

Kp''y g''uco g''qngp.'r tc{gt''eqo o gpegu''y kj ''y g''tgekcn'qh'' õ*Cncj w'cndct* ö''}Cncj 'ku''i tgcvgt; ''cpf ''y ku''o cngu''uvej ''y kpi u'' cu''gcvlpi .'f tkpnkpi ''cpf ''cmkpi .'hqtdkf fgp''} *ctco*; 'hqt''y g'' r gtuqp''r tc{kpi 0'Vj wu.''y g''hktuv''vcndkt ''\*wvgtcpeg''qh''Cncj w'' *cndct*+'kp''r tc{gt''ku''ecngf ''Vcndktcj ''cn/Ktco 0

Cmpi ''y g''y c{ ''y 'O geec.''y g''r kri tko u''tgr gcv''y g''tgekscn'qh'' nc ddc{m'y j gpgxgt''y g{ ''tgcej ''cp{ ''wr y ctf ''cpf ''f qy py ctf ''umr g0' Vj ku''tgr gvkskqp''ku''tgeqo o gpf gf ''qt''qr vkqpcn''}o wac cdd; 0'Kp'' gxgt{ ''dgpf kpi ''cpf ''ucpf kpi ''wr tki j v.''ucpf kpi ''cpf ''ukwkpi .''kv'ku'' o wac cdd''hqt''y g''qpg''r tc{kpi ''y q''tgr gcv'y g''tgekscn'qh''Cncj w'' cmdct0'

õ*Cncj w'cndct* ö'ku'y g'hkuv'qdnki cvqt { 'wwgtcpeg'kp'y g'o qtpkpi 0

Kťku'ý g'hktuv'r j tcug'kp'ý g'hqto ''qh''*cf j cp'*cpf ''ks *co cj* ''ý cv'c'' O wurko 'kphcpv'j gctu''cv'ý g''ko g''qh''dktý .''cpf ''kv''ku''cnuq''ý g''ncuv'' r j tcug'ý cv'ku''tgekgf ''hqt''ý g''f gcf ''\*kp''ý g''r tc{gt''qh''ý g''f gcf '' } *crcj ''cr/o c{{ky +''dghqtg''j* g''ku''dwtkgf 0

Ki'ku''y g''qpn{ 'tgekcn'y j kej 'ku''qdrki cvqt { ''}*y clkd*; 'kp''r tc { gt''cu'' y gm''cu''cp''guugpvkcn'r kmct''}*t wnp*; ''qh''r tc { gt0

Kťku'ý g'htuv'ugpvgpeg'qh'ý g'O wurko 'j {o p.'kg0cfjcp0'

KV ku'ý g"o wej 'tgr gcvgf 'tgekxcn'cv'ý g"eqo o gpego gpv'qh'r tc{gt." f wtkpi 'ý g"r tc{gt"cpf ''chvgty ctf.''uwej 'ý cv'ý tqwi j qwv'ý g'f c{" ý g'O wurko ''tgr gcvu'kv'582''vko gu''f wtkpi ''ý g'hkxg''f ckn{ ''qdnki cvqt{" r tc{gtu'\*pqv'kpenwf kpi ''ý g"*o wuvc cdd'*'r tc{gtu+''cu''uj qy p''dgnqy < "

30Hqt'gcej ''qh'y g'hkxg'f ckn{ 'r tc{gtu. 'y g''*cf j cp* ''ku'tgekgf ''cpf ''kp'' gxgt{ ''*cf j cp*.''õ*Cnc j w'cmdct* ö''ku'tgr gcvgf ''ukz ''ko gu'\*52''ko gu''kp'' cm+0

40Hqt"gcej "qh'y g'hkxg"f ckn{ "r tc { gtu. "y g"/s co cj "ku't gekgf "cpf " kp"gxgt { "/s co cj."õCncj w'cndct ö"ku't gr gcvgf "hqwt "vko gu"\*42" vko gu'kp"cm+0'

50'Dghqtg''y g''Vcmdktcj "cn'Ktco "kp"gcej "qh''y g''hkxg''f ckn{" r tc{gtu.''y gtg"ctg"ukz"o wuxc cdd"'vcmdkt"cpf "y g''ugxgpy "vcmdkt" eqpuvkwwgu''y cv''qdnki cvqt{"Vcmdktcj "cn'Ktco "\*52"'vko gu''kp"'cm+0 "

60'Vj g''*Vcmdkt cj ''cn/Kt co* ''cv''y g''dgi kppkpi ''qh'r tc{gtu''ku'' tgr gcvgf ''hkxg''\ko gu''f ckn{0

70'Vj gtg'ku''qpg''*vcmdkt '*f tkqt''vq''gxgt{*"twmw÷*"}dqy kpi ''f qy p; ''kp'' yj g''39''*t cm÷cj* u''}e{engu; ''qh''yj g''hkxg''f ckn{ ''r tc{gtu'\*39''\ko gu''kp'' cm+0

```
80Kp"gcej "qh'ý g'39"t cmæj u"qh'r tc{gtu'y g'j cxg"y q"uwlwf u"
}r tquvtcvkqpu; 'hqt"gcej "qh'y j kej "kv'ku'o wwc cdd"vq"tgekvg"
wcmdktô dghqtg"cpf "chvgt"y g"uwlwf "*8: "vko gu"kp"cm+0
```

```
90'Gxgt{"rtc{gt"j cu"c"s wpwv"rtkqt"vq"y j kej "y gtg"ku"c"vc mdkt "*7"
vko gu"kp"cm+0
```

: 0°C v'vj g''gpf ''qh''gcej ''qh''y g''hkxg''f ckn{ ''r tc { gtu. ''y gtg''ctg''y tgg'' *vc mdkt* u'\*37''vko gu''kp''cm+0

```
; 0'Chygt"gxgt{"rtc{gt."y g"tgekg"'cmdkt"56"'ko gu"cu"r ctv"qh"j g"
Vcudk cv'J cf tcv'Hcvko cj "c/\land cj tc"*\dive+"*392"ko gu"kp"cm\div0
```

[gv.'y j cv'c'r kv{ ''y cv'y tqwi j qwv'qwt''hxgu.''y g''j cxg''pqv'tgekgf " õ*Cnc j w'cndct* ö''y kj ''cwgpvkqp="hqt.''kh''gxgt{''f c{''c''r gtuqp''y qwrf " tgekg'õCnc j ''ku'i tgcvgtö''y kj 'hck j ''cpf ''r gthgev'cwgpvkqp''o qtg'' y cp''582''vlo gu.''j g''y km''pq''nqpi gt''dg''chtckf ''qh''cp{''r qy gt.'' uwr gtr qy gt''qt''eqpur ktce{0

#### Vcmdkt'kp'qvjgt'rtc{gtu

 $\begin{aligned} & \texttt{Kp''y' g''} + \texttt{f''cn'Hkt}_{3;4} + \texttt{cpf''} + \texttt{f''cn'Swtdcp}_{3;5} + \texttt{tc} \{\texttt{gtu.''pqv''} \\ & \texttt{qpn} \{\texttt{''kp''y' g''r tc} \{\texttt{gtu''dwv''cnuq''dghqtg''cpf''chvgt''y' g''r tc} \{\texttt{gtu.''vcndkt''' eqpuvkswegu''cm''y' g''ej cpvu0} \\ & \texttt{u} = \texttt{started} \\ \end{aligned}$ 

```
Kp''y g" crcj ''crtC{cv''}Rtc{gt'hqt''Uki pu; .<u>]3; 6 '</u>'y g''j cxg''hxg''
twnw:"cpf ''y gtg''ku''vcndkt 'hqt''gcej ''twnw:Đ'
```

```
Kp"'y g" cncj "cn'Oc { { k''} Rtc { gt "hqt "y g"F gcf ; "cnuq." hkxg"'cndkt u" guugp vkcm{ "eqpuvkvwg"c"r kmct "qh"y g"r tc { gt0 "
```

#### "

"

"

#### J qy 'y g'ij qwf 't gelsg'ij g'icmdlt 'lp'i t c { gt

```
Kuco 'j cu'gzr nckpgf 'y g'gvks wgwg'hqt 'gxgt { 'cevkqp0'Kp''y g'tgekcn'
qh'õCncj w'cndct ö'uqo g'twrgu'o wuv'cnuq''dg''qdugtxgf 'uwej ''cu''
y g'hqmqy kpi <
```

```
30F wtkpi ''y g''tgekkcn'qh''vc mdlt 'kp''r tc{gt.''y g''uj qwrf ''tckug''dqyj "
qwt''j cpf u''r ctcmgn''q''qwt ''gctu''kp''uwej ''c''o cppgt ''y cv''qpeg''dqyj "
j cpf u''dgeqo g''r ctcmgn''q''y g''gctu.''y g''vc mdlt ''j cu''cntgcf { ''dggp''
tgekgf 0'
```

```
Ko co ''ct/Tkf c''*\div+''uckf <'õVj g''o qxgo gpv'qh''y g''j cpf u''f wtkpi "
y g''tgekkcn'qh''uc mdkt ''ku''ghbgevkxg''kp''hqewukpi ''y g''cvgpvkqp''cpf "
j cxkpi ''eqo r ngvg''f gxqvkqp''cpf ''ukpegtkv{ ''kp''uwr r nkecvkqp''q''
I qf @j_3; 7_''
```

```
40'Vj g'hkpi gtu''qh''y g''j cpf u''f wtkpi ''c mdkt ''uj qwrf ''dg''uvtgvej gf ''
vqi gyj gt ''wr y ctf 0
```

```
50'Vj g'r cro u'qh'y g'j cpf u'o wuv'dg'hcekpi 'y g's kdrcj 0
```

```
Vj g''tcf kkqpu'j cxg'f guetkdgf ''y g''tckukpi ''qh''y g'j cpf u'f wtkpi ''
vcndkt ''cu''y g''cf qtpo gpv'qh''r tc{gtQ3; 8_''''
```

#### Vj g'o gcpkpi 'qh'temdkt

```
Cncj w'cmlct 'ko r nkgu'y cv'I qf 'ku'uwr gtkqt 'vq''cm''cpi kdng''cpf ''
kpvcpi kdng. ''vgo r qtcn'cpf ''egnguvkcn'dgkpi u0'
```

```
Cncj w'cndct 'o gcpu'ý cv'I qf 'ku'i tgcvgt'ý cp'ý cv'y j kej 'qpg''
```

| eqwrf "f guetkdg0<br>" |     |       |  |     |      |         |       |   |
|------------------------|-----|-------|--|-----|------|---------|-------|---|
| " "                    | " " | "     |  | " " | " "  | " "     | " "   | " |
| ,, ,,                  | "   | ., ,, |  | ,,  | ,, , | , ,, ,, | ,, ,, |   |

"

"

Q"J g"y j q"ku"dg{qpf "ko ci kpcvkqp."cpcnqi {."knwukqp."cpf "hcpe{#" Vj g"i cvj gt kpi "y cu"Hpkuj gf "cpf "qwt "Hdgur cp"eco g"\q"cp"gpf 0" [gv."y g"ct g"uvkn"cv"\j g"dgi kppkpi "qHf guet kdkpi "[qw"dcugf "qp" y j cv"y g"j cxg"uckf."j gctf "cpf "t gcf 0

Ko co "c / cf ks "\* $\div$ +"uc {u<"õY j gp"{qw"ctg"tgekkpi "ý g"*ucmdkt*." gxgt { y kpi "o wuv"dg"kpuki pkhecpv"kp"{qwt"uki j v"gzegr v" J ko @]<u>3; 9\_</u>"

Vj cv'c'r gtuqp'y qwf 'tgekg'y g"*vcmdkt 'y* kj 'j ku'vqpi wg'y j krg'j ku' j gctv'ku'cwcej gf 'vq'uqo gyj kpi "gnug'ku'c'nkg'cpf 'c'f gegr vkqp."cpf " dgecwug'qh'y ku."I qf 'vcngu'y g'uy ggvpguu'qh'tgo go dtcpeg" }*f j knt*; 'htqo 'j ko 0

#### Vcmllt 'lp'Knco le'ewnwtg

Vj g'tgekkcn'qh'õ*Cncj w'cndct* ö'j cu''dggp''ewuvqo ct { ''pqv'qpn{ ''kp'' r tc { gt ''dw''tcy gt ''kp''o cp { ''chhcktu''cpf ''ukwcvkqpu0F wtkpi ''y g'' gctn{ ''r gtkqf ''qh''Kurco ''y g''O wurko u''wugf ''vq''tgekkg''y g''*vc ndkt* ''dqyj '' kp''vko gu''qh''r tqur gtkv{ ''cpf ''cf xgtukv{ 0'Hqt''gzco r ng< ''

30F wtkpi ''y g''Dcwrg''qh''y g''Vtgpej ''}*nj cpf cs*; .''y g''O wurko u'' eco g''cetquu''c''hkto ''tqemi'y j krg''y g{ ''y gtg''f ki i kpi ''y g''tgpej 0' Vj g''r kemi'y cu''dtqngp''dwi'pqv''y g''tqen0'Vj g''Rtqr j gv'\*U+''eco g'' cpf ''etwij gf ''y g''tqemi'y kj ''c''dnqy 0'Vj g''O wurko u''tgekgf ''y g'' *cndlkt* ''kp''wpkuqp''cpf ''tki j v'y gtg''y g''Rtqr j gv'\*U+''uckf <'õKucy ''y g'' hcmi'qh''y g''D{| cpvkpg''cpf ''y g''Rgtukcp''ecuvrgu''kp''y g''ur ctmu''cpf '' ur ctmgu''qh''y g''tqem06]3;:\_\_

```
40F wtkpi ''y g''Dcwrg''qh'' kthkp.":Crk'*:c+''wugf ''y g''tgeksg''y g''vcmdkt ''
y j gpgxgt''j g''urgy ''cp''gpgo {0'D{ ''eqwpvkpi ''y g''pwo dgt''qh''
vcmdkt u.''y g''O wurko u''y qwrf ''mpqy ''y g''pwo dgt''qh''y qug''y j qo ''
j g''j cf ''ugpv''y j' gmhktgQ3; ; _''
```

```
50'Qp''y g''pki j v'y j gp''Hc ko c<br/>j ''c
| /\ cj tc''*\div+'y cu''ugpv''q''y g''
```

```
j qwug''qh':Crk'kdp''Cdk'' crkd''*\divchvgt''y g''y gf f kpi +.'92''
y qwucpf ''cpi gnu''eco g''f qy p''vq''ej cpv''y g''vc mdkt <u>Q422</u>.
```

```
60'Qwt ''J qn{ ''Rtqr j gv'*U+'tgekgf ''62''w mdkt u''qxgt ''y g''dqf { ''qh''
He ko cj ''dkpv'cn'Cucf ''*o qy gt ''qh''Ko co ''\divCrk'*\divr+<u>1423</u>_'cpf '92''
w mdkt u''qxgt ''y g''dqf { ''qh'j ku''wpeng'' co | cj 0<u>424</u>_''
```

```
70'F wtkpi ''y g'' cll''tkwcnu.''ky'ku'o wwc cdd''vq'tgekg''vcmdkt ''y kj ''
gxgt{''uvqpg''y cv'ku''y tqy p''cv''y g''tgr tgugpvcvkqpu''qh''Ucvcp0<u>425_</u>
```

```
80Kp''y g''Vcudk cv'J cf tcv'Hcvko cj ''c/\land cj tc '*\div+''y j qug''tgy ctf '' ku''gs wkxcngpv''y ''c''y qwucpf ''t cm\div j u''qh''o wuxc cdd''r tc { gtu. ''56'' vcmdkt u''ctg''kpenwf gf 0.426_
```

```
90'Y j gp''y g'J qn{ 'Rtqr j gv<sup>**</sup>U+'y cu''dqtp.''y g''hktuv''ugpvgpeg''j g''
y cu''cdng''vq''wwgt''y cu''õO wdctcncj w'Cncj w'cndct ö''}Dnguugf 'ku''
J g='Cncj 'ku'i tgcvgt; 0427_
```

"

```
: 0'Y j gp'O geec'hgmlkpvq''y g'j cpf u''qh''y g'O wurko u.''y g''Rtqr j gv'
*U+''gpvgtgf ''y g'O culkf ''cn' ctco .''r qkpvgf ''q''y g'' clct''cn'Cuy cf ''
}Drceml'Uvqpg; .''cpf ''tgeksgf ''y g''vcmdkt 0'Vj g'O wurko u''cnıq''
tgeksgf ''y g''uco g''vcmdkt ''y j kej ''dtqwi j v'hgct''kpvq''y g''j gctvu''qh''
y g''r qn{ y gkuvu<u>0428_</u>
```

```
; 0'Y g'tgcf 'lp''y g''tcf kkqpu<'õY j gpgxgt''c''egtvclp''y lpi ''
cuvqpkuj gu''{qw.''tgekg''y g''vcmdkt 06<u>]429_</u>
```

```
320F wtkpi ''y g''Dcwng''qh''W wf.''qpg''qh''y g''ngcf kpi ''y cttkqtu''
co qi ''y g''kphkf gni''cungf ''hqt''c''ej cmgpi gt0J cf tcv'-Cnk'*÷c+''eco g''
hqty ctf ''cpf ''j g''f gcnv''y g''gpgo { ''uwej ''c''j gcx { ''dmy ''y cv'y g''
Rtqr j gv'*U+''cpf ''y g''O wurko u'tgekgf ''y g''cmdkt ''y ky ''c''mwf ''
xqkegQ42:__
```

```
330'Vj g'J qn{ 'Rtqr j gv'*U+'uckf '\q'J cf tcv':Cnk'* \div \leftarrow \delta Y j gpgxgt" {qw'nqqn'cv'yj g''etguegpv''}j krcn ''qt''yj g''o ktqt.''qt''{qw''gpeqwpvgt" c''r tqdngo .''uc{ ''cmdkt ''yj tgg''\ko gu@j42;__
```

```
340°6Cncj w'cndct ö'y cu'y g'unqi cp''qh'\ c{f.''uqp''qh'Ko co " cu/Ucllcf "*\div+.''y j q'tgxqngf "ci ckpuv'y g'':Wo c{{cf 'twrg0432_" "
```

```
350'F wtkpi ''y g''Dcwrg''qh''Dcft.''y g''Rtqrjgv'*U+'y cu''cy ckkpi ''y g''
pgy u''qh''y g''f gcyj ''qh''P cy hcn''qpg''qh''y g''gpgo { ''ej kghu0'Y j gp''
```

j g'\*U+'y cu'kphqto gf ''y cv'J cf tcv'+Crk'\*  $\div$  +'j cf ''urckp''P cy hcn''y g'' Rtqr j gv'\*U+'tgekgf ''y g''*cmdkt* 0<u>433</u>

360'Y j gp''J cf tcv''-Crk'\*  $\div$  +"eco g''q''r tqr qug'hqt''J cf tcv'\ cj tc" \* $\div$  +. "y g''Rtqr j gv'\*U+'uckf <"õ[ qw'y ck0'Kj cxg''q''tghgt''y g''o cwgt" vq''o { ''f cwi j vgt ''Hcvko cj 0'Dw'y j gp''uj g''y cu''eqpuwngf .''J cf tcv'' \ cj tc'\*  $\div$  +''tgo ckpgf ''ukrgpv'cpf ''f kf ''pqv''uc{ ''cp{ y kpi 0'Vj g'' Rtqr j gv''uckf <"õ*Cnc j w'cndct #'Ummwj c 'ks tct wj c*"} Cmcj ''ku'' i tgcvgt#J gt''ukrgpeg''ku''j gt''cr r tqxcŋ 0<u>434</u>\_

370F wtkpi ''y g''dcwng''ci ckpuv''y g''*Mj cy ct k*''\*Mj ctklkgu+.''y j gp'' y gkt ''eqo o cpf gt''r gtkuj gf.''J cf tcv''-Cnk'\*-c+'tgekgf ''*cmdkt* ''cpf '' r gthqto gf ''r tquvtcvkqp.''cpf ''cm''y g''r gqr ng'tgekgf ''*cmdkt* 0<u>435</u>''

380C'i tqwr "qh'Igy u'go dtcegf "Kinco "cpf 'ý g{ 'uckf 'vq'ý g" Rtqr j gv'\*U+<br/>tõVj g'r tgxkqwu'r tqr j gw'j cf 'uweeguuqtu0'Y j q'ku" y g'gzgewqt "qh"{ qwt 'y kn'} $y c k_i$  Aö'C v'ý ku'Iwpewtg. 'ý g" hqmqy kpi 'Xgtug''qh'I wctf kcpuj kr "} $c{cj "cn'y kc{cj}; 'y cu"}$ tgxgcngf <

### 

 $\tilde{o}[qwt'iwctfkcp'ku'dpn{'Cncj.'Jku'Crqung.'cpf'jg'hckjhwn' yjq'bckpwckp'jg'tc{gt'cpf'ikcg'jg'/cncv'jjkrg'dqykpi'' fqyp(b]436_$ 

"

Vj g'Rtqr j gv'\*U+'uckf .''õNgv'wu'i q''q''y g''o qus wg@''Y j gp''y g{" cttkxgf .''y g{ ''ucy ''c''dgi i ct''y j q''y cu''i ncf ''dgecwug''J cf tcv'-Crk'' \* $\div$ +''y j krg''kp''y g''ucvg''qh''*t wmw*-''kp''r tc{gt''j cf''i kxgp''j ko ''j ku''tkpi 0' Cv'y cv''o qo gpv''y g''Rtqr j gv'\*U+'tgekgf ''*ucmdkt* 0437\_''

390T gekcn'qh''*cmdkt* "cv'y g''ko g''qh''gpvgtkpi ''kpvq''y g'j qn{" uj tkpgu''qh'y g''kphcmldng''Ko co u'j cu''dggp''gplqkpgf 0'Uko krctn{." dghqtg'tgcf kpi '\  $k ctcv'Lco k \neq j$ . "y g'tgekkg''322''*cmdkt*u''kp''y tgg" uvci gu0Ceeqtf kpi ''q''y g''rcvg''O clnkuk ''y g'tgcuqp''hqt''cm'y gug" *vcmdkt*u''ku'r gtj cr u'hqt''wu''pqv''q''kpf wi g''kp''gzvtgo kuo " i j wwy y; ''y kj 'tgi ctf ''q''y g''Ko co u'\*  $\neq$  +''cu'f guetkdgf ''kp''y g'' ugpvgpegu''eqpvckpgf ''kp''y g''  $k ctcv'Lco k \neq j$  0.438\_"

3: O'Kp''j ku'lwf i o gpvu.''y j gpgxgt''J cftcv'-Crk'\* $\div$ +'kf gpvkhkgf''y g'' etko kpcn''j g''y qwrf''tgekkg''c mdkt (]439\_

3; 0O c{ y co 'cv/Vco o ct'y cu'j wpi ''cv'y g''qtf gt ''qh'': Wdc{f'' Cmcj 'kdp'\ k{ cf ''cpf ''y gp''cwcengf ''y kj ''ur gctu'hqt''y g''etko g''qh'' ukf kpi ''y kj ''J cf tcv': CnK'\*  $\div$  +0C v'y g''o qo gpv''qh'j ku''o ctv{tf qo .'' j g''y cu'tgekkpi ''*cmdkt* ''y j kng''y g''dnqqf ''nqy gf ''htqo ''j ku'' o qwj 0<u>43:</u>"

"

420'F wtkpi ''y g''cuegpukqp''} $o k \neq cl_i$ .''y g''Rtqrj gv'tgekgf ''*cmdkt* ''cv'' gxgt{'j gcxgp'j g''r cuugf ''d{043;\_\_\_\_

430Ikdtcøkn<sup>1</sup>\*Ctej cpi gn'I cdtkgn+<sup>1</sup>\*÷*c*+<sup>1</sup>y cu'dgukf g'y g'Rtqr j gv'\*U+" y j gp'J cf tcv'÷Cnk'\*÷*c*+<sup>1</sup>eco g'kp0Ikdtcøkn<sup>1</sup>\*÷*c*+<sup>1</sup>uckf <õQ" O wj co o cf #'D{ 'I qf 'y j q'cr r qkpvgf "{qw'cu'y g'Rtqr j gv#' Eqo r ctgf '\q'y g'f y gngtu'qh'y g''gcty .''y g'kpj cdkcpw''qh'y g'' j gcxgpu'ctg''dgvgt ''cpf ''o qtg'hco khct''y kj ''y ku'÷Cnł0'Y j gpgxgt'' j g'tgekgu'*ucndkt* 'kp''y g''dcvngu.''y g''cpi gnu'tgekg''kv'cnqpi ''y kj '' j ko @j442\_''

440'F wtkpi 'y g'Dcwrg''qh''Mj c{dct.'y j gp'y g'O wurko u'gpvgtgf " y g'hqtvtguu.'y g{ 'tgekvgf 'y g''*c mdkt* 'uq'o wej 'y cv'y g'Lgy u'j cf " vq'hrgg0<u>443\_</u>"

..

]3; 3\_" $Ncddc{m}$  J gtg'Kco ;  $\langle$ Kp'hwm'' $Ncddc{m'cmcj wo o c''$ mddc{m'mddc{mc'mc'lij ctkmc'mmc'mddc{m'kppcøn'j cofc'' y cop/pkio cvc 'ncmc 'y conto wmc 'nc 'uj ct kmc 'ncmc 'nc ddc {m'} oJ gtg" Kco.'Q'Nqtf.'j gtg'Kco.'[ qw'kpf ggf 'j cxg'pq'r ctypgt.'j gtg'K co 0P q'f qwdv."cm'r tckug"cpf "dqwpvkgu"ctg"[ qwtu. "cpf "uq 'ku'yj g" cduqnwg'F qo ckp0[ qw'kpf ggf 'j cxg'pq'r ctvpgtu.'j gtg'Kco ö; 0' Tgekgf "kp"Ctcdke. "kv"ku"yj g"vcndk{ { cj. "r tqencko gf "ko o gf kcvgn{" chygt'y gctkpi 'y g'kj tco '\*y j kyg'i cto gpv+'y cv'uki pkhgu'y g'' dgi kppkpi ''qh''y g''j cll'tkwcnu0'} VtcpuQ <u>]3; 4\_"</u>If "cn/Hkt <'y g'Kuco ke'hgcuv'o ctmkpi 'y g'gpf "qh'y g" hcukpi 'o qpyj ''qh'Tco cf cp0'} VtcpuQ ]3; 5\_"-*Hf "cn/S wt dcp*"\*Hgcuv'qh'Ucetkhleg+<'y g'Kurco ke'hgcuv' o ctmkpi ''y g''gpf ''qh''y g''J cll''tkwcnu''kp''y g''o qpyj ''qh'' Fj wm/J kllcj. "y j kej "ku"cuuqekcvgf "y kj "y g"qhhgtkpi "qh"cpko cnu" hqt'ucetkhleg0'}VtcpuQ  $3:6_" cncj "cn'C{cv''qdrki cvqt{"rtc{gt"hqt"uki pu''qt"pcwtcrl"}}$ r j gpqo gpc"uwej "cu"c"uqrct "gerkr ug."c"nwpct "gerkr ug."

gcty swcngu. "vj wpf gt"cpf "nki j vpkpi . "gve0"} VtcpuQ 3; 7\_'Y cuc \$\vert kicuj /Uj k\vert cj .'xqn06.'r 09490 3; 8\_'Dk ct 'cn/Cpy ct.'xqn0: 6.'r 05730 <u>]3; 9\_"</u>*Ukt t*"*c* / *cncj*."r 09: 0 ]3; : \_'Dk ct ''cn/Cpy ct.''xqr0'42.''r 0'3; 20 ]3; ; \_'Dk ct ''cn/Cpy ct.''xqn0'54.''r 0820 ]422\_'Dk ct ''cn/Cpy ct.''xqn0'65.''r 0'3260 ]423\_'Dk ct ''cn/Cpy ct.''xqn0'57.''r 0920 ]424 "Dk ct "cn'Cpy ct."xqr042."r 0850 ]425\_'Dk ct ''cn'Cpy ct.''xqn033.''r 038: 0 ]426\_'Dk ct "cn/Cpy ct."xqr037."r 046: 0 ]427\_'Dk ct 'cn/Cpy ct.'xqr037.'r 04950  $\frac{428}{Vchukt/g'Pgowpgj}$ . 'xqr0'49. 'r 0'5290 ]429\_'Dk ct ''cn/Cpy ct.''xqn0'; 4.''r 03490 ]42: \_''Dk ct ''cn'Cpy ct.''xqr042.''r 03480 ]42; \_'Dk ct ''cn/Cpy ct.''xqn0'; 4.''r 03670  $]432' c{f'kdp'':Crk''r 03: 80$ ]433\_'Dk ct ''cn/Cpy ct.''xqr03; .''r 04: 30 ]434\_'Dk ct ''cn/Cpy ct.''xqn0'65.''r 0'; 50 ]435\_'Dk ct ''cn/Cpy ct.''xqn0'63.''r 0'5630 1436 "Unt cj "cn/Oc df cj "7⊲70 <u>]437\_</u>'Dk ct ''cn'Cpy ct.''xqn0'57.''r 03: 50 ]438\_'Dk ct ''cn'Cpy ct.''xqn0'38.''r 0'; ; 0 ]439\_''Dk ct ''cn/Cpy ct.''xqr0'62.''r 0'4820 ]43: \_'Dk ct ''cn/Cpy ct.''xqn0'64.''r 03470 ]43; \_'Dk ct ''cn'Cpy ct.''xqn0': 8.''r 04290 ]442 "Dk ct "cn'Cpy ct."xqn05; ."r 0; : 0 ]443\_"Rc{co dctk'xc" wmwo cv'}Rtqr j gy qqf "cpf "I qxgtpcpeg; ." r 03580

```
\underline{\dot{U}^{*} \dot{a} b^{*} \& d Q \& a^{*} e^{A} \underline{\dot{U}^{*} a b \& Q} \underline{O}_{\pm}^{*} \\ \underline{\dot{U}^
```

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• •

Chygt''y g'tgekkcn'qh'*Vcmlktcj ''cn/Ktco .''Uwtcj ''cn/Hcvk cj '*ku''y" dg'tgekgf ''cpf ''kh''y ku'*uwtcj ''*ku''pqv'tgekgf ''kp''y g''r tc{gt.''y g'' r tc{gt''ku'kpxcnkf 0õVj gtg''ku''pq''r tc{gt''y ky qwi'y g''Qr gpkpi ''qh'' y g''Dqqni'}*hcvk cj ''cn/nkxcd*; 0<u>0</u>]444\_

Vj g''qy gt ''pco g''qh''y ku'*uwt cj* ''ku''y g''Qr gpkpi ''qh''y g''Dqqm'' }*hc vk cj ''cn'nkvcd*; ''dgecwug''y g''S wtøcp''dgi kpu''y ky ''y ku'*uwt cj* 0' Vj ku'*uwt cj* ''j cu''ugxgp''xgtugu]445\_''cpf ''ceeqtf kpi ''vq''y g''vcf kkqp'' qh''y g''O quv'P qdng''O guugpi gt ''\*U+''qp''y g''cwj qtkv{ ''qh'Lcdkt 'kdp'' -Cdf 'Cncj ''cn'Cp ctk''kv'ku''y g''dguv'*uwt cj* ''qh''y g''S wtøcpQ446\_ ''

```
Uwt cj "cn/Hcvk cj "ku"ý g"qpn{ "uwt cj "y j kej "ku"qdnki cvqt { "wr qp" gxgt { 'O wurko "vq"tgekvg"cv"ngcuv"vgp" vko gu"f ckn{ "kp"j ku"hkxg" qdnki cvqt { "r tc { gtu0
```

Eqpegtpkpi ''y g''ko r qt vcpeg''qh''y ku''*uwt cj*.''kv'ku''gpqwi j ''vq''uc { '' y cv'kv''ku''pcttcvgf ''kp''y g''tcf kkqpu<'õKi''{ qw'tgekg''y ku''*uwt cj* ''92'' ko gu'hqt''y g''f gcf ''r gtuqp''cpf ''j g'tgxkxgu.''f q''pqv''dg'' uwtr tkugf @<u>1447\_</u>

```
Htqo ''y g''pco g. 'õQr gpkpi ''qh''y g''Dqqnö''}hc k cj ''cn'nkcd; ''qh''
y ku''unt cj. 'kv'ku''engct ''y cv'cm''y g''x gtugu''qh''y g''S wtøcp ''y gtg''
eqo r kngf 'f wtkpi ''y g''vo g''qh''y g''Rtqr j gv'*U+''cpf ''hqto gf ''kpvq''c'''
dqqm'cpf ''cv'j ku''qtf gt ''y ku''unt cj ''y cu''r megf ''cv'y g''dgi kppkpi ''qh''
y g''Dqqn0'Vj g''x gtugu''qh''y g''dnguugf ''Unt cj ''cn' cof ''*qt.''
Hc vk cj +''ctg''cdqw'I qf ''cpf ''J ku''cwtkdwgu. ''y g''kuwg''qh''y g''
T guwttgevkqp'']o c \div cf; .''tgs wguv'hqt''i wkf cpeg''qp''y g''r cy ''qh''
vtwj .''cpf ''y g''ceegr vcpeg''qh''y g''uqxgtgki pv{''} cnko k {cj ; ''cpf ''
nqtf uj kr ''}twdwdk {cj ; ''qh''I qf 0'
```

```
Cnıq. "kp''y ku''uwt cj ''y g''gzr tguu''qwt''kpvgtguv''q''vtgcf ''y g''r cy ''qh''
y g''uckpwi'qh'I qf ''cpf ''cxgtukqp''cpf ''f kucxqy cn''qh''y g''o kui wkf gf ''
qpgu''cpf ''y qug''y j q''j cxg''gctpgf ''y g''f kxkpg''y tcy 0'
```

*Uwt cj "cn/Hcvk cj* "ku"ý g"uqwteg"qh"tgo gf kguô c"ewtg"hqt"dqý " r j {ukecn'ckro gpvu"cpf "ur ktkwcn'o cref kgu0"kp"j ku"dqqm"*Vchkt " Hcvk cj "cn/Mkvcd.*"ý g"revg": Crreo cj "Co kpk"j cu"pettevgf "o cp{" vtef kkkqpu"kp"ý ku"tgi etf 0

#### Vjg'kpuvt wevksg'iguuqpu'qh'Uwt cj 'cn/Hcvkj cj

"

```
30'D{'tgekkpi "Uwt cj ''crl Hcvk cj."o cp''ewu''j ku'j qr g''htqo "qyj gt" yj cp''I qf ''d{''uc{kpi."\delta Dkuo kmcj ö''}Kp''yj g''P co g''qh''Cmcj; 0
```

```
50'D{ 'tgekkpi 'y g'r j tcug.'õTcddk \phi d \div crco kp.ö'j g'guvcdrkuj gu'c'' eqppgevkqp''dgw ggp''j ko ugrh''cpf 'y g''wpkxgtug0
```

```
60'D{ "õCt/tc o cpkøt/tc ko ö"} y g'Cm/dgpghlegpv." y g"
Cm/o gteldwn ." j g"ugg" j ko ugh' wpf gt " y g"cgi ku'qh' J ku' xcuv'h cxqt0
"
```

```
70'D{'õO c nhh''_{cy o hof / f hpö''}O cuvgt''qh''y g''F c{''qh'' T gvt kdwkqp; .''j ku''pgi nki gpeg''qh''y g''F c{''qh''T guvt t gevkqp''y kn''dg'' gt cugf 0''''
```

```
80'D{ 'õK{ cmc 'pc -dwf ö''}[ qw'}cmpg; 'f q'y g'y qtuj kr; .'j g'' cdcpf qpu'j ku'ugthkuj pguu'cpf 'f guktg'hqt 'hco g0'
```

```
90'D{"õK{cmc 'pcuxc +kpö"}vq"[ qw'}cmqpg; 'fq'y g''wtp'hqt'j grr; ."
j g'tgo qxgu'htqo 'j ku'o kpf 'y g'kfgc''qh'uggnkpi 'j grr 'htqo ''qy gt''
y cp''I qf0
```

```
: 0'D{"\delta Cp \neq o \ w"\neq c \in \{j \ ko \ o\ v''\}[ qw'j cxg"dnguugf ; .''j g'wpf gtuvcpf u"
y cv'y g'f kuvtkdwkqp"qh'hcxqtu"hgu"kp'J ku'j cpf "cpf "gpx{"o wuv"
dg"cdcpf qpgf "dgecwug"y g"gpxkqwu"qpg"kp"tgcrkv{ "ku"pqv'ucvkuhgf "
y kj "I qf øu"o cppgt "qh'f gekf kpi "qp"cpf "cmqecvkpi "uwuvgpcpeg0"
```

```
; 0'D{"õk_f kpc \phi / ktc c \phi do wuxcs ko ö"}I wkfg"wu"qp"ýg"uvtcki j v" r cyj; ."jg"y cpvu"vq"cumihqt"hkto pguu"kp"vtgcfkpi "ýg"r cyj"qh'vtwy 0
```

```
320D{ "õktc"cmcfj kpc"cp\div o w"\div m{j ko ö"} y g'r cy "qh'y qug" y j qo "[ qw'j cxg"dnguugf; .''j g'f genetgu''j ku'uqhf ctkv{ ''y ky ''y qug"
```

```
yjq'jcxg'\tcxgtugf '\yg'yc{ 'qh'Iqf0
"
```

330Cpf 'hpcm{.''d{ '`õ $I j c{t k \phi n' o ci j wdk' \div cn{j ko ''y c'' nc \phi / cnkpö''}$ uwej ''cu''j cxg''pqv'kpewttgf ''[qwt''y tcyj.''pqt''ctg'' cutc{.''j g''f genetgu''f kucxqy cn''qh''henugj qqf ''cpf ''y g''r gqr ng''qh'' henugj qqf 0

#### Dkuo kmcj køt/tcj o cpkøt/tcj ko '}Kp'\j g'Pco g'qh'Cmcj.'\j g' Cm/dgpghlegpv.'\j g'Cm/o gtekhwn

Co qpi 'xctkqwu'r gqr ngu'cpf ''eqo o wpkkgu. ''y gtg''ku'c''ewuxqo ''qh'' dgi kppkpi ''cp''ko r qt vcpv'y qtm'y ky ''y g''pco g''qh''qpg''qh''y g'' ngcf kpi ''hki wtgu''qh''y cv'eqo o wpkx{ ''y j q''ku'tgur gevgf ''cpf '' cf o ktgf. ''uq''y cv''y g''vcun'y qwrf ''dg''uvctvgf ''cpf ''r wtuwgf ''y ky '' dnguukpi ''cpf ''cwur kekqwupguu0

Qh'eqwtug. "gcej "r gtuqp"cevu"ceeqtf kpi "vq"j ku"qt"j gt "eqttgev"qt" eqttwr v'kf gcu"cpf "dgnlghu0"Uqo g"r gqr ng"eqo o gpeg" y gkt "vcumu" y kj "y g"pco g"qh"kf qnu"cpf "v*c i j w*u"y j krg"qy gtu"f q"y g"uco g" y kj "y g"pco g"cpf "cuukuvcpeg"qh"I qf "cpf "y g"uckpw"qh"I qf 0' P qy cf c { u. "kv"j cu"dgeqo g"y g"ewuvqo "y cv"kp"eqput wevkpi " ko r qt vcpv"dwkrf kpi u. "f kuvkpi wkuj gf "hki wt gu"ct g"y g"Vt gpej ."y g" y g"r kemczg"qp" y g"i tqwpf 0"Rt kqt" vq"y g"Dc wg"qh"y g"Vt gpej ."y g" J qn{ "Rtqr j gv" U+"y cu"cmq" y g"ht uv'vq"dt gcm"y g"i tqwpf "kp"

Dkuo kmcj "}Kp''y g'P co g''qh'Cmcj ; 'ku''y g''dgi kppkpi "qh''y g''dqqm' qh'tgxgrcvqp0'Dkuo kmcj 'ku''pqv''qpn{ ''y g''dgi kppkpi "qh'y g''S wt¢cp" dw'tcy gt ''y g''dgi kppkpi "qh'cml'j gcxgpn{ ''uetkr wtgu0'Dkuo kmcj '' j cu''dggp''y g''gr ki tcr j "qh'y g''y qtml'qh''cml'y g''r tqr j gu'\* $\div$ e'0' Y j gp''y g''ctml'qh'P w '\*P qcj +'\* $\div$ e''y cu''cdqwl''q''ugv''qwl'co kf uv'' y g''y cxgu'kp''y g''uqto .''j g''cungf ''j ku'hqmqy gtu''q''go dctml'cpf '' y gp''j g''uckf  $< \delta K ''y g''P co g''qh'Cmcj ''kv'uj cml'ugv''ucktl'cpf ''ecuv''$  $cpej qt @ ]448_$ 

Y j gp'J cf tcv'Uwc {o cp'\*Uqmo qp+'\* ÷ c+'kpxkgf ''y g'S wggp''qh'' Uj gdc'\*Dkrs ku+''vqy ctf 'I qf .''j g''dgi cp''j ku'kpxkcvkqp''ngwgt ''y kj '' y g''r j tcug. "Dkuo kncj k¢t/tc o cpk¢t/tc ko ''} Kp''y g'P co g''qh'' Cmcj .''y g'Cm/dgpghkegpv.''y g'Cm/o gtekhwn Q449\_

J cftcv':Crk'\*:x+'uc{u<fõ*Dkuo kricj* 'ku'y g''uqwteg''qh'diguukpi 'kp'' y qtm''cpf ''cdcpf qpkpi 'kv'igcf u''vq''y g''iceni'qh''uweeguu''qh''

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chhcktu06]44:
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J g'*\div+"cnuq"uckf "\q"uqo gqpg"y j q"y cu"y tkkpi "\j g"r j tcug."
õDkuo knc j ö<"õLc y y kf wj c ö"} Kpuetkdg"kv"y gnų 0_{44;}____
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Vj g'tgekkcn'qh'õ*Dkuo kncj* ö''cv''y g''dgi kppkpi ''qh''gxgt { ''y qtn'j cu'' dggp ''gplqkpgf ô gcvkpi .''urggr kpi .''tkf kpi ''qp''cp''cpko cn'\*qt''c'' xgj keng="o cttkci g''cpf ''o cvtko qp { .''cpf ''o cp { ''qvj gt ''cumu0'Gxgp'' kh''cp''cpko cn'ku''urcwi j vgtgf ''y ky qwi'y g''wvgtcpeg''qh'' õ*Dkuo kncj* ö.''eqpuwo r vkqp''qh''ku''o gcv'ku''wprcy hwh''} ctco; 0'Vj g'' ugetgv''dgj kpf ''y ku''ku''y cv'y g''qqppgevkqp0 ''

```
Y j { 'f q 'y g''uvctv'gcej ''vcum'y ky 'õDkuo kmcj öA
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Vj g''r tqf wewl'qh'c 'hcevqt { 'j cxg''y g''ur gekcn'mi q''cpf "go dngo "qh" y cv'hcevqt { 0'Hqt 'gzco r ng. 'c''r qtegnckp/r tqf wekpi 'hcevqt { 'r wu" ku'mi q''qp ''cm'kwl'y ctgu. ''dqy ''dki ''cpf ''uo cm0'Gxgt { ''eqwpvt { 'j cu'' ku'qy p''hrci ''j qkwgf ''cdqxg''qhhkegu''cpf ''i cttkuqpu. ''qp''uj kr u''cpf '' qp''qhhkeg''vcdngu0'Kp''y g''uco g''o cppgt. ''y g''pco g''qh'I qf ''cpf ''J ku'' tgo go dtcpeg''ku''cnuq''y g''nqi q''cpf ''go dngo ''qh'y g''O wurko ''cpf '' y g''r j tcug. ''õ*Dkuo kmcj* ö''ku''y g''u { o dqn''cpf ''eqf g''qh'y g''O wurko O' ''

Kp"gxgt { "cevkxkv{."dki "cpf "uo cm="gxgt { y j gtg."kp"yj g"o qus wg"qt" hcevqt {="cpf "cp{ vko g."kp"yj g"o qtpkpi "qt"gxgpkpi ."vj ku"dnguugf " r j tcug"ku"wwgtgf "d{ 'O wurko u "cpf "yj wu."y g"tgcf "kp"yj g"*j cf kj <*" õF q"pqv"hqti gv"*dkuo kmc j* "gxgp"kp"y tkkpi "c"eqwr ngv"qh"c"r qgo (b" Vtcf kkqpu"cdqwi'yj g"tgy ctf "qh"c"r gtuqp"y j q"vgcej gu"*dkuo kmc j* " vq"c"ej kf "j cxg"cnuq"dggp"pcttcvgf (]452\_"

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Ku"Dkuo kncj køt/tc o cpkøt/tc ko "c"r ctv"qh"Uwtcj "cn/Hcvk cj "cpf"
c"f kuvkpev"xgtug"}c{cj; A
```

Cnj qwi j "uqo g"kpf kxkf wcnu"j cxg"pqv"tgi ctf gf "kv"cu"r ctv"qh"y g" uwt cj "qt"j cxg"cdcpf qpgf "o gpvkqpkpi "kv"kp"y g"r tc{gt."y gug" r gqr ng"j cxg"dggp"uwdlgevgf "vq"etkkekuo "d{"O wurko uO"Hqt" gzco r ng."qpg"f c{."O w÷cy k{cj "f kf "pqv"o gpvkqp"  $dkuo kncj kot/tc \ o cpkot/tc \ ko$  "kp"y g"r tc{gt."cpf "y g"r gqr ng" uvtqpi n{"r tqvguvgf."uc{kpi <oF kf "{qw'uvgcn'cp"c{cj "qt"hqti gv" kvAö]453\_

Kp'j ku'vchukt"}S wtøcpke"gzgi guku; ."Hcmj t"ct/Tc| k'gpwo gtcvgu'38"

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r tqqhu'uwduvcpvkcvkpi ''y g'hcev''y cv'dkuo kncj køt/tc o cpkøt/tc ko "
ku''c''eqpuvkwwkxg''r ctv'qh''Uwt cj ''cn/Hcvk cj ''cpf ''Cnwuk''cnuq''
gzr tguugu''y ku''xkgy ''kp''j ku''vc hukt 0°Cj o cf ''kdp'' cpdcn'j cu''gs wcm{ "
uvcvgf ''kp''j ku''O wupcf ''y cv'dkuo kncj køt/tc o cpkøt/tc ko ''ku''c''r ctv''
qh''y g''uwt cj 0
```

```
Ceeqtf kpi ''vq''y g''Cj n'cn/Dc{v]454_''*\div +''qh''y g''O guugpi gt''qh''
Cmcj ''*U+'y j q''y gtg''c''j wpf tgf ''{gctu''ugpkqt''vq''y g''ngcf kpi ''
hvs cj c ''} lwtknu; ''qh'y g''Cj n'cu/Uwppcj . ''y j q''cvckpgf ''
o ctv{tf qo ''kp''y g''y c{''qh'Cmcj ''cpf ''y j qug''kphcmkdkkv{''}ko cj; ''
cpf ''r wtkv{ ''j cxg''cnuq''dggp''uvkr wrcvgf ''kp''y g''S wtøcp. ''y g''r j tcug.''
dkuo kmcj køt/tc o cpkøt/tc ko.''ku''kugnh'c''f kuvkpev'xgtug''cpf ''ku''
r ctv'qh''y g''uwt cj 0
```

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Vj g'kphenkdng''Ko co u'*\div+'kpukuvgf ''qp'tgekkpi ''enqwf ''

dkuo kmcj kat/tc \ o \ cpkat/tc \ ko 'f wtkpi ''r tc{gt0Ko co ''en/Des kt'*\div+''

y wu''uc{u'tgi ctf kpi ''y qug''y j q''y gtg''pqv'tgekkpi ''kv'f wtkpi ''

r tc{gt''qt''pqv'tgi ctf kpi ''kv'cu''r ctv''qh''y g''uwt cj <õVj g{''uvqng''y g''

dguv'c{cj #ö]455_
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```
Kp'j ku'eqo o gpvct{"qp"Uwt cj "cn/Hcvk cj.":Cmco cj "Uj cj kf"
O wcj j ctk'kf gpvkhkgu'Klp"cn/:Cddcu.":C ko .''Mcucøk'Klp"::Wo ct."
Klp'\ wdc{t.":C cø" cy wu."Hcmj t"ct/Tc| k"cpf "cu/Uw{ wk'cu"
co qpi ''y qug''y j q'j cxg''tgi ctf gf "dkuo kncj køt/tc o cpkøt/tc ko "
cu'r ctv'qh''y g"uwt cj 0'
```

```
Qh'eqwtug. ''y gtg''ku''pq''dkuo kmcj køt/tc o cpkøt/tc ko ''cv''y g''
dgi kppkpi ''qh''Uwtcj ''cn/Dctcøcj ''*Uwtcj ''cv/Vcy dcj +0Ceeqtf kpi ''
vq''J cftcv''÷Cnk'*÷c+.''kv'ku''dgecwug''dkuo kmcj køt/tc o cpkøt/tc ko ''
ku''c''r j tcug''qh'ugewtkv{ ''cpf ''o gte{ ''cpf ''kv'ku''pqv'eqpukuvgpv'y kyj ''
y g''f genctcvkqp''qh''f kucxqy cn''}dctcøcj ; ''qh''y g''r qn{ y gkuvu0
''
```

#### Dkuo kmcj '}Kp'tjg'Pcog'qh'Cmcj;

"

```
~"""Dkuo kmcj "ku"y g"kpf kecvqt "qh"f kxkpg"dcr vkuo "} kdi j cv"
Cmcj ; ."cpf "y g"o ctm"qh"qwt "o qpqy gkuvke"qtkgpvcvkqp0
"
```

```
~"""Dkuo kncj 'ku'y g''eqf g''qh''cy kf ''}o qpqy gkuo ; 'y j krg''
y g''pco g''qh''qy gtu'ku'y g''eqf g''qh'mult ''}kphkf grkx{ ; 'cpf ''y g''
pco g''qh'I qf ''crqpi ''y kj ''qy gtu''ku''y g''uki p''qh''uj kt m''
}r qn{ y gkuo ; 0'Y g''uj qwrf ''pqv'r rceg''y g''pco g''qh''qy gtu''
```

dgulf g'ý g'P co g''qh'I qf ''qt''r wi'ý g''pco gu''qh''qý gtu''l<br/>p''ý g'' r rceg''qh'I qf øu''P co g0'Vj g''o gcpl<br/>pi ''qh'' $\tilde{o}Egngdt cvg''j g''$ <br/>P co g''qh''{ qwt ''Nqtf  $\tilde{o}$ ]456\_''l<br/>u''ý cv'gxgp''ý g''P co g''qh'I qf ''<br/>uj qwrf ''cruq''dg'htgg''htqo ''cp{ ''uqtv'qh''r qn{ y gluo 0 ''

~·····*Dkuo kncj* 'ku'ý g'ugetgv'qh'gvgtpkv{ 'cpf 'r gtr gwkv{ .'cpf '' cp{ y kpi 'ý cv'ku'f gxqkf 'qh'ý g'ôf kxkpg''eqnqtö'ku'' r gtkuj cdrgQ457\_

~~~~Dkuo kmcj 'ku'y g'eqf g'qh'mqxg'hqt'I qf 'cpf 'tghcpeg'qp'' J ko 0

"

"

"

~ """Dkuo kncj 'ku'y g'eqf g'hqt 'nggr kpi 'cnqqh'htqo 'xcpkv{ 'cpf '' y g'gzr tguukqp''qh'ko r qvgpeg'kp''y g'r tgugpeg''qh'I qf 0'

~"""Dkuo kncj 'ku'y g'eqf g'hqt 'gpuwtkpi 'cevkqpu'y kj 'y g'' pco g''qh'I qf 0

~"""Dkuo kmcj 'ku'y g'eqf g'hqt 'y g'ucpevkhlecvkqp'qh'cevkqpu0

~~~~Dhuo kmcj 'ku'y g'eqf g'hqt'y g'r gtr gwcn't go go dtcpeg'' cpf 'i mthhecwlqp'qh'I qfô õQ'I qf #Ky km'pgxgt'hqti gv'[ qw' kp''cp{ 'ukwcwlqp0o

~ """Dkuo kncj "ku'ý g"gzrtguukąp"qh'o cpøu'qdlgevkxgô õQ" I qf#[ qw'ctg'o { "cko ='pqv'ý g"rgqrng."pqv'ý g'y qtnf "cpf " pqv'ecrtkekqwu'f guktgu0

~ """Dkuo kncj "o gcpu"ý cv'y g"uggn"j gr "htqo "J ko "cnqpg"cpf " pqv'htqo "qy gtu0"

~ """ Dkuo kmcj 'ku'kpf kecvkxg'qh'y g'hcev'y cv'y g'eqpvgpv'qh'y g" uwt cj 'j cu'dggp'tgxgcngf 'htqo 'y g'I gpguku'qh'Vtwj "  $o cdf c \phi g'' css$ ; 'cpf 'y g'Go dqf ko gpv'qh'O gte{"}o c j ct/g''tc o cv 0

#### Vj g'y qtf 'õCmcj ö

Uqo g''r gqr ng''j cxg''t gi ctf gf ''y g''y qtf ''õCncj ö''vq''d g''f gt kxgf '' ''cdcf **c '''6ni**õCncj ö''y g{ $\phi$ ö''õ **â U** kj c*ö 'o gc* pkpi ö''õ,, $\phi$ j''ht qo o gc p''y g'T gcn''Y qtuj kr r gf ''Dgkpi ''y j q''j cu''cm''y g''r gt hge kqpu0' Qý gtu. 'j qy gxgt. 'j cxg''tgi ctf gf 'kv''q''j cxg''dggp''f gtkxgf 'htqo " 'k U]\U''y ký 'ý g'o gcpkpi ''qh''cf qtcvkqp. ''qxg''cpf ö''õ ö co c| go gpv0'Vj gtghqtg. ''y g''y qtf ''õ*Cncj* ö''o gcpu''y g''Ucetgf " Guugpeg''y j qug''drkuu''j cu''cuvqwpf gf ''cpf ''hcuekpcvgf ''cm0'

'`ö ö'Mj qf cö''qtö'`õ ö'K'o **wghi** g''p*qvgf* ''y cv'**h Yk ct** f õ*Mj qf cxcpf* ö'\*õI qf ö'kp''Rgtukcp+''ku''pqv'c''r gthgev''tcpurcvkqp''qh'' '`õ ö''y g''y qtf ''õCmcj ö''dgecwug''õMj qf cö''qtki kpc**VgZq**o õ*nj wf c* { ö''y j kej 'ku''vgto gf 'kp''r j knquqr j { ''cu''y g'P geguuct { '' Dgkpi ''} y clkd''cn'y wlwf ; ''y j kng''y g''y qtf ''õ*Mj qf cxcpf* ö''cnnq'' o gcpu''õQy pgtö'0'Hqt''gzco r ng.'kp''y g''Rgtukcp''tkgtcwtg.''y g''uc {.'' õ*nj qf cxcpf /g''nj cpgj* ö''vq''o gcp''õqy pgt''qh''y g''j qwugö'0

Vj g'o gcpkpi 'õqy pgtö''qt''õpgeguuct { 'dgkpi ö'hcmu''uj qtv'qh'' eqpxg{kpi ''yj g''o gcpkpi ''qh''õ*Cncj* ö0'õ*Cncj* ö''o gcpu''yj g''Guugpeg'' yj cv'ku''y qtyj { ''qh''nqxg''cpf ''y qtuj kr ''dgecwug''KV'r quuguugu''cm''yj g'' r gthgevkqpu0

Kp''y g'S wtøcp."crrtqzko cvgn{"qpg''j wpftgf"P co gu''qh'I qf''j cxg" dggp"o gpvkqpgf."co qpi 'y j kej 'õ*Cncj* ö'ku''y g''o quv' eqortgj gpukxg"qpg0"Kp"rtkpekrng."gcej ''qh''y g''P co gu''qh'I qf" rqkpvu''vq"qpg''qh'J ku'C wtkdwgu."cpf"pqv'Iwuv'qpg''uki p''cpf" u{o dqn'hqt'I qf0'

Vj g'pco gu''qh''kpf kxkf wcnı''ctg''f kxgtug0'Uqo g''pco gu''ctg''qpn{ " u{o dqnı''cpf ''ctg''kp''pq''y c{ "eqo r cvkdng''y kj ''y g''ej ctcevgt''qh''y g'' r gtuqp''kp''s wguvkqp="kp''hcev.''qpgøu''pco g''ku''uqo gvko gu''tgr wi pcpv'' vq''qpgøu''ej ctcevgt''uwej ''cu''c''hct''y j qug''pco g''ku'' c

c

\_\_'**'Kp**''yj g''\tcf k\kqpu."; ; "

pco gu'qh'I qf 'j cxg''dggp''o gpvkqpgf 'y j kej ''ctg''f guetkdgf ''cu'' *Cuo c\phi'cn' wupc*''}y g''Dguv''P co gu; ''cpf ''kv'ku''uvcvgf ''y cv'cp{qpg'' y j q''y qwrf ''r tc{ ''q''I qf ''y kj ''y gug''P co gu.''j ku''tgs wguv'uj cm''dg'' i tcpvgf (<u>1459</u>\_'Cpf ''kp''y g''*F w c \other Cy uj cp''Mcdkt*.''y g''ecm''qp''

```
I qf 'y ky 'c''y qwucpf 'P co gu'cpf 'C wtkdwgu0
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Vj g''r tgugpeg''qh''y g''y qtf u. 'õ*tc o cp*ö''}Cm/dgpghkegpy ''cpf '' õ*tc ko* ö''}Cm'o gtekhwn ''chvgt''y g''y qtf 'õ*Cncj* ö''uki pkhkgu''y cv'' o cp''eqo o gpegu'j ku''y qtm'y kyj 'j qr g'hqt''f kxkpg'hcxqt''cpf '' o gte{ ''cpf ''eqpukf gtu''I qf ''cu''y g''uqwteg''qh''cm'j qr gu''cpf '' o gtekgu0'

Dgi kppkpi "cp"cevkqp"y kj "gzrtguukqpu"qh"o gte{"uki pkhkgu"y cv" y g"f kxkpg"hqwpf cvkqp"cpf "dcuku"ku"cpej qtgf "qp"o gte{"cpf" i tceg."cpf "kv"ku"qpn{ 'hkwkpi "hqt"o cp"vq"uggm"cuukuvcpeg"htqo "y g" Hqwpvckpj gcf "qh"O gte{0'

*Tc o cp* 'ku'c''pco g''gzenxukxg''hqt''I qf ''dgecwug''kv''ku''qpn{ ''J ku'' dgpghlegpeg''y j lej ''ku''wplxgtucn''cm'gpeqo r cuulpi ''cpf '' r gtr gwcn0'Qyi gtu''gkj gt 'j cxg''pq''dgpghlegpeg''}*tc o cj*; ''qt''y j cv'' y g{ 'j cxg''ku''pqv'cm'gpeqo r cuulpi 0'Kp''cff kkqp. ''kh''qyi gtu'y qwrf '' gxgt''i kxg''uqo gyi kpi .''kv''ku''dgecwug''yi g{ ''gzr gev'y qtrf n{ ''qt'' qyi gty qtrf n{ ''tgy ctf u=''yi g{ ''i kxg''i tcuu''kp''qtf gt''yq''i gv'o km# ''

T gi ctf kpi ''y g''y qtf u.''õct/tc o cpö''cpf ''õct/tc ko ö.''y g''uj cm'' grcdqtcvg''qp''y go ''wpf gt''y g''xgtug.''õct/tc o  $cpk \phi t/tc$  ko ö0 ''

#### õCn/j co f wakacjö'}Cmirtckag'dgaqpiu'vq'Cnacj;

Vj g'y qtf u. 'õo cf c .ö'õuj wnt.ö'cpf 'õ co f ö'j cxg'kf gpvkecn' o gcpkpi u. 'dwv'gcej "qh'y go 'cnuq'j cu'kvu'qy p'r ctvkewrct" o gcpkpi 0Hqt 'kpuvcpeg. 'y g'y qtf 'õo cf c ö'o gcpu'õvq'r tckugö'' tgi ctf nguu'qh'y j gy gt 'y g'r tckug'ku'y qty {.'dcugf "qp'hrcvgt { 'qt" uqo gy kpi 'wpy qty {.''qt''y j gy gt ''qp''ceeqwpv'qh''qpgøu'' gzegngpegu. 'hgct. ''eqxgvqwupguu. ''dgi vkrkpi .''qt''kpi tcvkcvkqp0

Vj g'y qtf "õ*uj wnt* ö'o gcpu'i tcvkwf g'hqt 'y g'i tceg''cpf 'hcxqt" i kxgp''d{ "qy gtu''vq''uqo gqpg0'Kp''y g''y qtf "õ ö''j qy gxgt. ''cr ctv'' htqo ''i tcvkwf g''cpf ''y cpmu.''cpqy gt 'o gcpkpi ''ku''rcvgpv''cpf ''y cv'ku'' y qtuj kr 0'I tcvkwf g''cpf ''y cpmu''vq''y g''gzvgpv''qh''y qtuj kr ''ku'' õ co f ö0'J gpeg. ''vq''gzr tguu''õo cf c ö''cpf ''õuj wnt ö''vq''qy gtu'ku'' r gto kuukdırg. ''dw''õ co f ö''ku''gzenwukxg''hqt''I qf ''dgecwug''J g''ku''y g'' Qpn{''Qpg''y qtyj {''qh'y qtuj kr 0'

 $\tilde{o}Cn' cofwnkmcj \ddot{o}'ku'hqmqy gf ''d{ ''hqwt''f guetkr vkqpu''qh''I qf <''$ 

õt cdd"cn' $\pm$ nco kp.ö"õct/tc o cp.ö"õct/tc ko .ö"cpf "õo cnhnk" {cy o kf/f kpö"y j kej "kpf kecvg"y cv"qp"ceeqwpv"qh"y gug"f kxkpg" hcxqtu"cpf "i tcpf gwt."o cp"j cu"vq"gzr tguu"õ co f ö"vq"I qf 0"Dw" dghqtg"cm'y gug"f guetkr vkqpu. "y g"y qtf "õnhncj ö"}dgmpi kpi "vq" Cmcj ; "cr r gctu0"Kv"o gcpu"y cv"õ co f ö"ku"uqngn{ "hqt"J ko "cpf "cu" J g"ku"y g"Qpn{ "Qpg"y qty { "qh"õ co f .ö"y qug"f guetkr vkqpu"ecp" cmq"dg"cuuwo gf "gxgp"kh"y g{ "j cf "pqv"cr r gctgf "chvgty ctf 0'

Kli{ qwt ''g{ gu''ct g'hqewukpi ''qp''y g''dgpgxqngpeg''qh'y g''Htkgpf.'' y gp''{ qw''ct g''wpf gt ''y g'hgwgt ''qh'{ qwt ''ugrh ''pqv''wpf gt ''y g''dqpf ''qh' y g''Htkgpf 0"'

#### õTcdd'cn/-cnco kpö'}Nqtf 'qh'cm'yj g'Y qt ff u

I qf 'ku''y g'Nqtf ''qh''cm''y g''y qtrf uOJ g''ku''y g''Nqtf ''qh''y j cvgxgt ''ku'' kp''y g''j gcxgpu''cpf ''y g''gcty ''cpf ''y j cvgxgt ''ku''dgw ggp''y go <

### " : âãái à â â â â â â â

õVjg'Nqtf'qh'yjg'jgcxgpu'cpf'yjg'gctyj'cpf'yjcvgxgt'ku'' dgwyggp'yjgoö]45:\_"

Cpf

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'' ʿáæä ʾ' ấaĨ

õJ g'ku'lj g'Nqtf'qh/cmlij kpi u(b]45;\_

J cf tcv'': Crk'\*:x+'uc{u''cdqwi'y g''kpvgtr tgvcvkqp''qh'õ $\cdot x n o k p \ddot{o} < d p \ddot{$ 

Vj cv'ku. 'J g''ku''y g''Nqtf ''qh''y g''kpcpko cvg''qdlgew''cpf ''y g'' cpko cnı. ''y g''tkxkpi ''cpf ''pqp/rkxkpi ''y kpi u0

Cnj qwi j "kp"ý g"S wt¢cp"uqo gvlo gu"õ $\div mo kp$ ö"tghgtu"vq"j wo cp" dgkpi u. "kp"o quv"ecugu"õ $\div mo$  ö"tghgtu"vq"etgcwtgu"y j kng" õ $\div mo kp$ ö"r qkpvu"vq"cm"etgcwtgu0Kv"ecp"dg"yj vu"vpf gtuvqqf "vj cv" J g"ku"yj g"Nqtf "qh"yj g"gpvktg"etgcvkqp"cpf "vj cv"y j cv"uqo g" dgrkgxgf "f wtkpi "vj g"r tg/Kmco ke"r gtkqf "qh"ki pqtcpeg"} ${cy o "}$  $cmlcj krk{ {cj ; "cpf "co qpi "uqo g"pcvkqpu"vj cv"yj gtg"ku"c"f kuvkpev"$ 

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i qf 'hqt 'gxgt { 'v{ r g''qt 'mkpi f qo ''qh''etgcwtgu''ku''c 'hcnug''kf gc0'
''
```

I qf 'j cu'f gvgto kpgf ''y g''eqwtug''qh'i tqy y ''cpf ''r gthgevkqp''qh''cm'' etgcwtgu''chygt ''etgcvkpi ''y go ''cpf ''y g''f kxlpg''pwtwtg''ku''y g''uco g'' eqwtug''cu''y cv'qh'f kxlpg''i wlf cpeg0õ*Qwt ''Nqtf ''ku''J g''y j q''i cxg''* gxgt { yi kpi ''ku''et gcvkqp''cpf ''y gp''i wlf gf ''k0ë]462\_''KV'ku''J g''y j q'' vcwi j v'y g''j qpg{dgg''y j kej ''r ncpv'vq''uwen0KV'ku''J g''y j q''cwi j v'' y g''cpv''j qy ''vq''r tgugtxg''ku''y kpvgt''tguqwtegu0'J g''j cu''etgcvgf ''y g'' j wo cp''dqf { ''kp''uwej ''c''y c{ ''y cv'kv'ku''cwqo cvlecm{ '' j go cvqi gpqwu0

[ gu.'uwej 'c'I qf 'ku'y qty { ''qh'r tckug''cpf ''i tcvkwf g0Qpg''qh'y g'' r gewrkct 'ej ctcevgtkurkeu''qh'o cp''ku'y cv'j g''cr r tgekcvgu'dgcwr{ .'' r gthgevkqp''cpf ''grgi cpeg.''cpf ''gzr tguugu'i tcvkwf g''hqt 'hcxqtu''cpf '' i qqf pguu0I qf .''y g''Gzcngf .''ku''y qty { ''qh'r tckug''qp''ceeqwpv''qh'' J ku''Dgcwr{ ''cpf ''Rgthgevkqp.''cpf ''J g''ku'y qty { ''qh''dgkpi ''y cpngf '' dgecwug''qh'J ku'i qqf pguu''cpf 'hcxqtu0'

Qh'eqwtug. '\q''dg''i tcvghwh'\q'I qf 'ku''pqv'kpeqpukuvgpv'y kj " gzr tguukpi '\j cpmu'\q''r gqr ng''r tqxkf gf '\j cv'kv'ku'\j g''eqo o cpf ''qh'' I qf ''cpf ''kp'\j g''y c{ ''qh'I qf 0'Cnj qwi j ''cp{qpg''ecp''uj qy ''j ku'' cr r tgekcvkqp'hqt''qy gtu''kp''f kxgtug''y c{ u. ''kp''tgcrkv{ ''j g''ku''r tckukpi '' y g''Uqwteg''cpf ''Hqwpvckpj gcf 0

õ*Tcdd"cn'÷cnco kp*ö"o gcpu'ý cv'ý g'tgncvkqpuj kr "dgw ggp"I qf " cpf "ý g"etgcwetgu"ku"c"r gtr gwcn"cpf "enqug/mpkv"tgncvkqpuj kr 0 "

```
\delta T c dd'' cn' \pm cnco kpö''o gcpu''y cv''y gtg''ku''y g''r quukdkrkv{ "qh''i tqy y " cpf ''v ckplpi ''hqt''cm0'P qv''qpn{ ''y g''i qqf ''dwi''y g''dcf ''cnuq''dgpghkv'' htqo ''y g''f kxlpg''hcxqtu0'\delta Vq''y gug''cpf ''uq''y qugô vq''cm'Y g'' gzvgpf 0; ]463_
```

I qf ''uc{u<õY g''cuukuv'cm'cpf 'j cxg''r tqxkf gf ''y g''i tqwpf 'hqt''cm' uq ''y cv'gcej ''r gtuqp''eqwrf ''cwckp''y j cvgxgt''cko ''j g''j cu0ö''Ukpeg'' y g''y qtrf ''ku''y g''cdqf g''qh''r tqj kdkkqp''cpf ''qduvcergu. ''kv''ku''pcwtcrl' y cv'pqv'gxgt{qpg''ecp''cwckp''j ku''qt''j gt''i qcr0

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õTcdd"cn'÷enco kpö"o gepu'ý cv'I qf 'ku'dqý 'ý g'Twgt"epf 'ý g"
O epci gt "qh'etgevkqp0
```

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'tcdk{ cö'y j kej ö''õ ö''Vj g'y qtf ''õtcddö ]gXMkxgf 'h qo ''gky gt
o gcpu''õqpg''y j q''dguvqy u''i tqy y ''cpf ''tckpkpi ö.''qt'htqo ''
õt cddc ö''y j kej ''o gcpu''õqy pgtö0I qf ''ku''y g''Qy pgt''qh''y g''y qtrf ''
```

cu'y gm'cu'ku'P qwtkuj gt 'cpf 'O cpci gt0'õ Cm'et gc kqp''cpf " eqo o cpf 'dgnqpi '\q'J ko 0Dnguugf 'ku'Cmcj.'\j g'Nqtf ''qh'cm'\j g'' y qt nf u0i]464\_

 $\begin{aligned} & \text{Ceeqtf kpi "'q"'y g"'tcf kkqpu. "'y g"r j tcug"} \tilde{o} \ Cm'rtckug" dgnqpi u''q" \\ & Cncj. "y g"Nqtf "qh'y g"Y qtrf uo ]465_" ku''y g"'dguv'i tcvkwf g"hqt"'y g" \\ & \text{hcxqtu''qh'I qf 0'Vj wu. "kv'ku''gplqkpgf "'q"rtckug"} cof; "I qf" \\ & \text{dghqtg"cp{"uwrrnkecvkqp"qt"tgs wguv'ku'o cfg"qh'J ko="qy gty kug."} \\ & y g''uwrrnkecvkqp ku''f ghgevkxg0 \end{aligned}$ 

P qv'qpn{ 'ku'kv'o gpvkqpgf 'cv'ý g'dgi kppkpi ''qh'uwr r necvkqp''cpf '' cf wrcvkqp''dwv'ý g''kpj cdkcpwu''qh'r ctcf kug''cnuq''tgr gcv'ý g''uco g'' r j tcug''cv'ý g''gpf ''qh''c''vcunz'''''

### 

õCpf 'ij ght 'eqpennf hpi 'ecm' 'Cml't chug'dgnqpi u'iq'Cmcj.'ij g'' Nqtf 'qh'ij g'cmlij g'y qt nf ulb]466\_

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#### õCt/tcj o cpkøt/tcj ko ö'}vj g'Cm/dgpghlegpv.'vj g'' Cm/o gtekhwn

Vtcpurcvkpi "vj gug" vg q"vgto u"kpvq" Rgtukcp" cu"õ $dcnj uj cpf gj / {g"} ogj tcdcp$ ö" ku" pqv" c"r gthgev" cpf "gzr tguukxg" vtcpurcvkqp" dgecwug" ceeqtf kpi "vq" :Cmco cj "Uj cj kf" Owcj j ctk" õ $dcnj uj cpf gj / {g"} ogj tcdcp$ ö" ku" vj g" vtcpurcvkqp" qh" vj g" Ctcdke" vg tf u" lcy cf" i gpgtqwu; "cpf" tcøwh" i mpf; ."cpf" pqv" tc ocp" cpf" tc ko 0°Cpf" kp" r tkpekr ng. "vj gtg" j cxg" dggp" pq" gs wkxcngpv" Rgtukcp" vgto u" hqt"

''tcj ko ''j cxg''dggb'  $\mathbf{\ddot{o}}$ ''t*cj cpö*''cpf ö'' $\mathbf{\ddot{o}}$   $\underline{\check{o}}$ eö''*C y* qwi j ''dqyi ''tcj o cj .ö''ōtcj o cp.ö''y j kej ö'' $\mathbf{\ddot{o}}$   $\underline{\check{o}}$ e $\mathbf{\ddot{o}}$ ''f *gt xgf* ''htq*o '' j g'*'tqqv'y qtf gpeqo r cuugu''y g''gzr cpukxg''dgpghkegpeg''qh'I qf .''cpf ''ku''i gpgtcn'' cpf ''kpenwf gu''cm'j wo cp''dgkpi u.''j qy gxgt''ō*tc ko* ö''ku''c''o gte{'' y j kej ''y kn''dg''uj qy gtgf ''qpn{''qp''y qug''y j q''ctg'i qqf ''cu''c'' tgy ctf ''hqt''y gkt''i qqf ''f ggf u0'Vj wu.''ceeqtf kpi ''q''Ko co ''c / cf ks '' \* $\underline{\div}$ +''I qf ''ku''*tc o cp*''kp''tgrcvkqp''q''cm''y g''etgcwtgu''dwi'J g''ku'' *tc ko* ''qpn{''q''y g''dgrkgxgtu0'I qf ''j cu''o cf g''o gte{''}*tc o cj* ; '' kpewo dgpv'wr qp''J ko ugh*\circolog J g'J cu'b cf g'b gte{''}pewo dgpv'' wr qp 'J ko ugrhtib* ]467\_''Uko krctn{.''y g''Rtqr j gv''cpf ''y g''Dqqm'qh'' Crrcj ''ctg''crnq''o gtekgu''hqt''cm'qh''etgcvkqp<

### " ia ägé Baai ä agé Aaai

### õYg'flf 'pqv'lgpf '{qw'dwv'cu'c'bgte{'iq'cnlijg'pcvlqpu0j<u>468</u>\_

"

J ku''pqwtkuj o gpv'cpf ''tckpkpi ''ctg''dcugf ''qp''o gte{ ''cpf ''J ku'' r wpkuj o gpv'cpf ''tgs wkscn''ctg''nkng''y g''uvkemi'qh''c''vgcej gt''y j kej ''ku'' pgeguuct{ ''kp''tckpkpi 0'Hqti kxgpguu''qh''ukpu. ''ceegr vcpeg''qh'' tgr gpvcpeg. ''eqpegcm gpv'qh'r gqr ngøu''hcwnu. ''cpf ''i kxkpi ''tgur kxg'' vq''eqo r gpucvg''hqt''y g''r cuv'ctg''cmi'o cpkhguvcvkqpu''qh''J ku'' cm' gpeqo r cuukpi ''o gte{0

Kp"guugpeg. "etgcvkqp"ku"c"o cpkhguvcvkqp"qh"J ku"o gte{"cpf" y j cvgxgt"tgcej gu"gxgt{"etgcwtg"htqo "J ko "ku"i tceg"cpf "o gte{0" Vj wu. "cm"*uwt cj* u"qh"y g"S wtøcp"\*y kj "y g"gzegr vkqp"qh"*Uwt cj " cv/Vcy dcj* +"dgi kp"y kj "*Dkuo krvcj køt/tc o cpkøt/tc ko* "}Kp"y g" P co g"qh"Crvcj ."y g"Crn/dgpghkegpv."y g"Crn/o gtekhwn 0 "

 $Ct/tc \ o \ cpk \phi t/tc \ ko \ "cmpi \ ukf g"tcdd"cm' \div cno \ kp"o \ gcpu' y \ cv' y \ g"$   $f \ kx \ kpg" pqwt \ kuj \ o \ gpv' \ ku" \ dcugf \ "qp"i \ tceg" \ cpf \ "o \ gte \{0 \ \ p' y \ g" uco \ g"$   $o \ cppgt. 'J \ ku' \ ycej \ kpi \ 'ku" \ cnq" \ cpej \ qtgf \ "qp"o \ gte \{ \ cpf \ "$   $eqo \ r \ cuu \ kqp \ < \tilde{o} \ Vj \ g' \ Cm' \ dgpg \ Megpv' j \ cu' \ vi j \ y' y \ g' \ S \ wt \ \phi c \ p(\tilde{o} \ \ 1469 \ \ "$   $Cpf \ 'y \ ku' \ ku \ kugh \ 'c \ "guu \ qp"hqt" \ 'wu' j \ wo \ cp" \ dgkpi \ u' y \ cv' y \ g" \ ycej \ gt"$   $cpf \ 'y \ ku' \ ku \ kugh \ 'c \ mu' \ dgpg \ xq \ qp \ y' \ cpf \ "eqo \ r \ cuu \ dgp \ ydg \ cp \ y \ cv' y \ g" \ ycej \ gt"$ 

#### õO cıkınk{ cy o kaf /f kpö'}O cuvgt 'qh'tj g'F c { 'qh'T gvt kd wvkqp; "

I qf 'ku'y g''O cuvgt ''qh''y g''F c{ ''qh'T gvtkdwkqp0'J g''ku''dqy ''y g'' O cuvgt ''}o crkm ''cpf ''y g''Uqxgtgki p''}o crkm 0'Vj g''wpkxgtug''ku''cp'' guvcvg''}o krm ''wpf gt ''J ku''r quuguukqp''} $o crkmk{cj ; ''cu'y grn'cu'c''}$ f qo kpkqp''}o wrm ''wpf gt ''J ku''uqxgtgki pv{ ''cpf ''twrg0'J ku'' r quuguukqp''ku''eqo r tgj gpukxg. ''gpeqo r cuukpi ''gxgt{y kpi 0'Gxgp'' y g''i qxgtpo gpv'ku''wpf gt ''j ku''r quuguukqp $< \delta Uc{.'':Q''Cnvj.''}$  $O cuvgt ''qh'cnt'uqxgtgki pv{#<math>\delta$ ]46: \_''Kp''y g''uco g''qngp.''o cp.''kp'' tgrcvkqp''q'y g''ho du''qh'j ku''dqf{.''ku''y g''o cuvgt''cu''y gni'cu''' uqxgtgki p''cpf ''eqo o cpf gt0

Vj g'o cuvgtuj kr ''qh'I qf ''ku'tgcn''cpf ''pqv'f grgi cvgf ''cpf '' eqpvtcewcn0I qf ''ku''y g'O cuvgt''qh''dqyj ''y g'y qtrf ''cpf ''y g'' j gtgchvgt0[ gv.''ukpeg'o cp''tgi ctf u'j ko ugrh''cu''y g''o cuvgt''qh'' y kpi u''cpf ''chhcktu''kp''y ku''y qtrf .''j g''vgpf u''vq''dgeqo g''pgi rki gpv'' qh''y g''Qtki kpcrlO cuvgt0'Qp''y cv'f c{ ''y j gp''cm'ecwugu''y km'egcug'' vq''gz kuv.''cm'tgrcvkqpu''y km'dg''cdtqi cvgf ''cpf ''cm''vqu'y km'dg'' ugcngf. "cv'vj cv'r qkpv."j g''y kmlhggn'cpf "f kuegtp''yj g''f kxkpg" uqxgtgki pv{ ''y gm='hqt."j g''uj cml'dg"cff tguugf. "vj wu $< \tilde{o} Vq' y j qo$  "  $f qgu''y g''uqxgtgki pv{ ''dgnqpi ''vqfc{A<math>\ddot{o}$ ]46; \_''Y j gp"o cp"y qwf" lwuv'qr gp"j ku"g{ gu."j g''y kml'uc{ $< \tilde{o} Vq''Cncj$ . ''y g''Qpg. ''y g'' Cm'r ct co qwpv@]472\_

Vj g'r tc{kpi 'r gtuqp'y j q'tgekgu'gxgt{fc{.'õI qf 'y g'O cuvgt'qh' y g'F c{ 'qh'Tgvtkdwkqpö''cny c{u'tgo go dgtu'y g'F c{ ''qh'' Tguvttgevkqp''cpf 'Tgenqpkpi 0'Dghqtg'f qkpi 'y j cvgxgt'y qtm'j g'' kpvgpf u'vq'f q.'j g'htuv'y kpmu''cdqw'y g''dqqm'qh''ceeqwpw''qp''y g'' F c{ ''qh'Tgvtkdwkqp0

### Vjg'Ctcdle'yqtf 'õflpö

Vjg'Ctcdke''yqtf ''õ*f kp*ö''jcu''xctkqwu''ogcpkpiu<

"

"

30  $\delta F kp$   $\delta''$  ku''y g'f kxkpg''ncy "cpf "*uj ctk÷cj*."cu''y g'J qn{ 'S wtøcp" uc { u< $\delta K pf ggf$ . 'y kj 'Cnrcj 't grki kqp 'ku'Kurc 0  $\delta 473_{-}$ 

40°õ*F kp*ö''ku''f ggf "cpf "qdgf kgpeg."cu''y g''J qn{ 'S wt¢cp''uvcvgu." y wud°õ $Qpn{i'''gzenwukxg''hcky'''ku''y qt y { ''qh'Cncj @]474_"$ 

50'õF kpö''cu''ceeqwpv''cpf ''tgvt kdwkqp.''cu''y ku''pqdıg''xgtug'' r tqencko u<''õO cuvgt ''qh'y g'F c { ''qh'T gvt kdwkqp0''

Qpg"qh"ý g"pco gu"qh"ý g"F c{ "qh"T guwtt gevkqp"ku"õ{cy o " cf/f kpö0"Vj cv"ku. "ý g"f c{ "qh"r wpkuj o gpv"cpf "tgy ctf."lwuv"cu"ý g" J qn{ "S wtøcp"pcttcvgu"cdqwi"ý qug"y j q"f gp{ "ý g"F c{ "qh" T guwtt gevkqp $\leq \tilde{o} Vj g$ { "cum"÷Y j gp"y kn/dg"ý g"F c{ "qh" T gvt kdwkqpAøö ]475\_"Qt. "kp"f guetkdkpi "ý cv"f c{ "ý g"S wtøcp"uc{ u< "

## $\dot{a}$ ea $\dot{a}$ ia $\dot$

õCi ckp.'y j cv'y knllj qy '{qw'y j cv'tj g'Fc{'qh'Tgvt kdwvkqp'kuA'' Ky'ku'c'fc{'y j gp'pq'lqwnly knldg'qh/cp{'cxckrltq'cpqvj gt'lqwnl' cpf'cndeqo o cpf'tj cv'fc{'y knldgrqpi 'tq'Cncj @]476\_ "

 $\tilde{o}Ocuvgt$  "qh'y g'F c{ 'qh'T gvt kdwvkqpö 'ku'c'y ctpkpi 'cpf 'c" ecwvkqpô Q'r tc{kpi 'qpg#'Uvctvkpi 'vqf c{.'y kpm'qh'vqo qttqy =" y g'f c{ 'y j gp" $\tilde{o}Pgkj$  gt 'y gcnj 'pqt 'ej kf t gp 'y kn/cxckr= $\tilde{o}$ ]477\_" ý g'ť c{ 'y j gp" $\tilde{o}[qwt't grcvkxgu'cpf''_{qwt}''ej kftgp''y kn/pqv'cxckt' {qw=<math>\tilde{o}$ ]478\_'ý g'ť c{ 'y j gp"pgkjgt'ý g''qpi wg''j cu'ý g''r gto kuukqp" vq"cum'cp"cr qmi { 'pqt''y g''o kpf ''y g''qr r qtwpkx{ ''q''y kpm='y g'' f c{ 'y j gp"pqy kpi ''y km'cxckt'cpf ''dgpghks'gzegr v'y g'' t ceg''}nwh '' qh'I qf 0

Vj g''r neego gpv'qh'õ*O cuvgt ''qh'vj g'F c { ''qh'T gvt kdwkqpö*'' crqpi ukf g''õ*vj g''Cm/dgpghægpv.''vj g''Cm/o gt ekhwö* ''uj qy u''yj cv'hgct'' cpf ''j qr g''o wuv'i q''j cpf ''kp''j cpf ''cpf ''gpeqwtci go gpv''cpf '' r wpkuj o gpv''ctg''vqi gy gt0'Cu''yj g''J qn{ ''S wtøcp''uc { u''kp''cpqy gt'' xgtug.

## 

õKphqto 'O {'lıgtxcpwl'lj cv'Kco 'kpfggf'lj g'Cn/hqti kxkpi.'lj g'' Cn/o gtekhwn'cpf'lj cv'O {'rwpkuj o gpv'ku'c'rckphwn' rwpkuj o gpvlö]479\_

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Cpf 'kp"{gv'cpqyj gt 'xgtug. 'I qf 'ku'f guetkdgf 'cu<'õc eegr vqt 'qh' tgr gp vc p eg. 'lgxgt g'hp 't gvt hdwshqp (bj]47:\_\_

Cv'cp{ 'tcvg."õ*vj g'Cm/dgpglkegpv."ý g'Cm/o gt ekhwö* 'ku'c'i kxgt 'qh' j qr g'y j krg"õ*vj g'O cuvgt 'qh'vj g'F c{ 'qh'T gvt kdwvkqpö* ''grkekku'hgct0' Vj g'O wurko ''o wuv'dg''dgwy ggp'hgct ''cpf ''j qr g. ''cr r tgj gpukqp''cpf '' cur ktcvkqp''uq''cu''pgkyj gt ''q'hggri'r tqwf ''pqt ''q''dg''j qr gnguu''qh'' f kxkpg''o gte{0''

### õK { cmc'pc÷dwf 'y c'k { cmc'pcuvc÷kpö' }[ qw' }cmpg; 'f q'y g'' y qt uj kr'cpf 'tq'[ qw' }cmpg; 'f q'y g'twt p'hqt 'j grr;

õ*K { cmc "pc -dwf ö* "o gcpu" y cv'õY g"ctg" ugtxcpw" qh" [ qw"cnqpg" cpf "pqv" qh" qy gtu0ö" Vj ku" ugpvgpeg" j cu" yq "f ko gpukqpu <"Qpg" ku" y g"chhkto cvkqp" qh" ugtxkw fg" vq" J ko "cpf "y g" qy gt" ku" y g" pgi cvkqp" qh" ugtxkw fg" vq" qy gt "y cp" J ko 0[ gu. "y g"r gthgev" uej qqn" } o cmcd; "cnqpi ukf g" hcky "kp" I qf "pgeguukscvgu" fgpkcn" qh" y g" *ci j w.* "cpf "y qug" y j q" j cxg" hcky "kp" I qf "dw" j cxg" ceegr vgf " y g" j gi go qp { "qh" y g" *ci j wu*" ctg" õj cm/ O wurko uö" qt" r gt j cr u" pqv"

Hcký "kp"I qf 'o kpwu'ý g"f gpkcn'qh'ý g"*vc i j wi*'o gcpu'c"ecr vkxg" O wurko #'Kp"qtf gt"vq"dg"tgnkgxgf "htqo "ý g"czku'qh'*uj kt m*" }r qn{ ý gkuo ; ."qpg"o wuv'uggm'tghwi g"kp"ý g"egpvgt"qh'wpkv{ "cpf " r qy gt0'Vj wu."y j kng"uvcpf kpi "kp"r tc{gt"ý g"r gtuqp"r tc{kpi "f qgu" pqv'ugg'j ko ugrh''cmpg''d{ ''vj kpmkpi ''qh'j ko ugrh''cmpg0' ''

Tcy gt."cu'kh'tgr tgugpvkpi "cm'o qpqyj gkuvu."j g'ku'uc { kpi <õQ" I qf #'Kcnqpg''co "pqv'f gugtxkpi "cpf "y qtyj { 'vq'j cxg''c" o gtkqtkqwu'y qtuj kr 0'Uq."Kj cxg''lqkpgf "y g''qyj gt 'O wurko u''cpf " y g''f q''y qtuj kr "cpf "cf qtg"[ qw''vqi gyj gt0'Kco "pqv''cnqpg='tcyj gt." cm''qh''wu''uggm''cuukuvcpeg'htqo "[ qw0'Vj gtghqtg."r tc{gt"kp" r tkpekr m''o wuv'dg''uckf "kp"eqpi tgi cvkqp."cpf "kpf kxkf wcn'r tc{gt" dgnqpi u''q''y g"pgzv''uvci g0

Vj g'r tgegf kpi ''xgtugu'i cxg'wu''y gqtgvkecn'o qpqy gkuo ''}*wy lf*; '' cpf ''y g'r tqr gt ''eqi pkkqp''qh'I qf .''y j gtgcu''y ku''xgtug''f kuewuugu'' f gxqvkqpcn'cpf ''r tcevkecn'*vcy lf* 0'Vj cv'ku.''y g''uj qwrf ''pqv''qpn{ '' tgeqi pk g'I qf ''kp''J ku''Qpgpguu.''dwi'y g''uj qwrf ''cnuq.''kp''r tcevkeg.'' y qtuj kr ''J ko ''cmpg''cpf ''y g''uj qwrf ''dg''o qpqy gkuv0'Y j { ''uj qwrf '' {qw'cdcpf qp'I qf ''y j q''ku''y g''umdgpghkegpv.''Cm'o gtekhwn''' Uqxgtgki p.''cpf ''O cuvgt.''cpf ''uwdlgev''{ qwtugrh''q''y g''ugtxkwf g''qh'' qy gtuA''

Dg"y g"ugtxcpv'qh"I qf "cmpg."cpf "pqv'y g"ugtxcpv'qh'y g"Y guv'qt" y g"Gcuv."pqv'y g"ugtxcpv'qh"i qrf "cpf "ukrxgt."cpf "pqv'y g"ugtxcpv" qh'y g"*ci j wu*0[ qw"f q"pqv"j cxg"gxgp"y g"tki j v'vq"ugtxg"cpf " qdg{ 'y g'tki j vqwu"gzegr v'kp"ecugu"y j gtg"I qf "i kxgu"{qw'y g" r gto kuukqp"qt"eqo o cpf 0'Hqt"gzco r ng."tgi ctf kpi "J ku"Rtqr j gv." I qf "uc{u $ö Y j qgxgt "qdg{u"y g"Cr quvg"egt vckpr{ "qdg{u"} Crrc j @]47; _"Vj cv'ku."kh'y g"qdg{ "qwt"hcy gt"cpf "o qy gt."kv"ku"$ dgecwug"I qf "eqo o cpf u"wu'vq"f q"uq"cpf "kp"f qkpi "uq."y g"ctg"

D{ ''y g'f kevcyg''qh'tgcuqp.''o cp''o wuv'ceegr v'ugtxkwwf g''y q''I qf '' qpn{ ''dgecwug''y g'j wo cp''dgkpi u''ctg''kp''nqxg''y ky ''r gthgevkqp''cpf '' kp''pggf ''qh'i tqy y ''cpf ''pqwtkuj o gpv0I qf 'ku''cnuq''y g'' go dqf ko gpv'qh''cmi'r gthgevkqpu''cpf ''y g''Nqtf ''qh''cmi'dgkpi u0'Kh'y g'' ctg''kp''pggf ''qh''dgpgxqrgpeg''cpf ''chhgevkqp.''y gp''J g''ku''y g'' Cm/dgpghkegpv''cpf ''y g''Cm/o gtekhwn''cpf ''kh''y g''y qtt{ ''cdqwi'y g'' f kuvcpv'hwwtg.''y gp''J g''ku''y g''Eqpvtqngt''cpf ''O cuvgt''qh''y cv'f c{0' Uq.''y j {''uj qwf ''y g''i q''q''qy gtu''cpf ''uggmij gr ''htqo ''y go A

õ*K { cmc "pc -dwf ö"*o gcpu"y cv"Kco "y kj "y g"r gqr ng."dwv"Kj cxg" pq"go qvkqpcn'cwcej o gpv"vq"qy gt "y cp"[ qw0'P gkj gt"f q"Kkuqncvg" o { ugh"htqo "y g"eqpi tgi cvkqp"qh"O wurko u"hqt"o g"vq"hqti gv" [ qwt"etgcwtgu"pqt"co "Kdg"cduqtdgf "kp"y g"eqpi tgi cvkqp"y cv"K y qwrf "cdcpf qp"[ qw."y g"Etgcvqt0Tcy gt."Knpqy "y cv'y g"y c{"

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vqy ctf ''y g'Etgcvqt''r cuugu''y tqwi j ''y g''etgcwtgu0
''
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õ*K { cmc "pcuxc +pö* "o gcpu" y cv'cny qwi j "y g"o cmg" wug" qh' y g" ecwugu" cpf "o gcpu" [ qw' j cxg"r ncegf "kp" etgc kqp. "Kmpqy "y cv' y g" ghge kxgpguu" cpf "ghhekgpe { "qh" gxgt { "ecwug" cpf "o gcpu" ku" y tqwi j "[ qwt" j cpf 0[ qw' ctg" y g" Qpg" i kxkpi "ghhge v' q" y g" ecwug" cu' y gm' cu' y gm' cu' y gm' cu' vcmg" cy c { "ku" ghhge v0[ qw' y km' ku' f qo kpcpv" qxgt "cm' ncy u" cpf "pcwtg" ku' uwd lge vgf " q" [ qwt "y km0 "

õ*K { cmc "pc ÷dwf ö* "o gcpu"y cv"[ qw"cmpg"ctg"y qty { "qh"y qtuj kr " cpf "y cv"y g"y qtuj kr "[ qw"pqv"qp"ceeqwpv"qh"hgct"\*qh"j gm#"cpf " eqxgvqwupguu"\*hqt "r ctcf kug+. "dw"qw"qh"nqxg"cpf "chhgevkqp"vq" [ qw0"Y j kej "dgnqxgf "} o c dwd; "ku"enqugt"cpf "o qtg" eqo r cuukqpcvg"vq"wu"y cp"[ qwA

 $\tilde{O}$  *k* { *cmc 'pc +dwf w'y c 'k* { *cmc 'pc uxc +kp*ö''o gcpu''y cv'ky'ku'pgkj gt " r tgf guvkpcvkqp"} *lcdt*; 'pqt 'F kxkpg'T guki pcvkqp"}*w hy k*; 0482\_" Cu'y g''uc { .' $\tilde{O}$ *pc +dwf* ö''}y g''y qtuj kr; .''ky'hqmqy u''y cv'y g''j cxg" htgg''y km'cpf ''ukpeg''y g''uc { ' $\tilde{O}$ *pc uxc +kp*ö''}y g''wtp'hqt''j gr; .''ky'' o gcpu''y cv'y g''ctg''pggf { ''cpf ''y cv'cm'chhcktu''ctg''dg{ qpf ''qwt'' eqpvtqn

õ*K { cmc 'pc ÷dwf w'y c 'k { cmc 'pcuxc ÷kp*ö''o gcpu''y cv'y g''r gthqto " y g''r tc { gt 'kp''eqpi tgi cvkqp''cpf ''y cv'y g''O wurko u''ctg''uvcpf kpi ''kp" qpg''rkpg. ''kp''wpkuqp''cpf ''uqrkf ctkx{ ''cu''dtqy gtu''cpf ''gs wcnu0' "

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õK{ {cmc 'pc ÷dwf ö ''o gcpu<'Q'I qf #Ktgi ctf '[ qw'cu'r tgugpv'cpf ''
y cvej kpi ''qxgt ''o g''cpf ''uq ''Kco ''uc { kpi .''
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õK{ { cmc ''}[ qw, ö'hqt''y g'ugtxcpv'y j q'tgi ctf u'j ko ugh'kp''y g''
rtgugpeg''qh'I qf.''y g'Gzcngf.''y km'dgpghkv'uqqpgt0'
''
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Htqo ''y g''dgi kppkpi ''qh''Uwt cj ''cn' Hcvk cj. ''y g''j cxg''dggp''cmkpi '' cdqw''I qf ''kp''y ktf ''r gtuqp.''dw''kp''y ku''r ctv'y g''ctg''cf f tguukpi '' J ko ''kp''y g''ugeqpf ''r gtuqp''*kf { cmc ''}[ qw<sub>1</sub> +0Kpkkcm{.'y g''ctg'' ces wckpvgf ''y kj ''I qf ''cpf ''rkwrg''d{ ''rkwrg''y g''dgi kp''vq''tgcej '' vqy ctf ''J ko ugrh0'Cpf ''kv''ku''pqv''qpn{ ''qpeg''dw''tcy gt.''cu''y g'' eqpxgtucvkqp''y kj ''qpgøu''dgnqxgf ''ku''uy ggv'cpf ''r ngcucpv.''y g''f q'' tgr gcv'y g''cf f tguu.''õk{ { cmc ö'}}[ qw<sub>1</sub> ''*y keg+0 ''
```

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Q'I qf #'Cný qwi j 'y qtuj kr 'ku'kpewo dgpv'wr qp'wu.'kp"
y qtuj kr r kpi 'y g''ctg''cnuq'kp''pggf ''qh''[ qwt''j gr <
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### " ·ã·ââââ âââ

### õY g'ý qwnf 'j cxg'þgxgt 'dggp 'i wlf gf 'j cf 'þqv'Cncj 'i wlf gf '' wulb<u>]483\_</u>

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"

Vj qwi j ''q'J ko ''cmpg''f q''y g''wtp''hqt''j grr. ''uggnkpi ''cuukuvcpeg'' htqo ''qy gt''y cp''J ko ''ku''r gto kuukdng''r tqxkf gf ''y cv''kv''ku''d{ ''J ku'' ngcxg0'Hqt''gzco r ng.''o cp''uggmi''y g''cuukuvcpeg''qh'j ku''qy p'' vcngpvu. 'hcewnkgu''cpf ''o kpf. ''y ku''ku''pqv'tgr wi pcpv''q''y g'' r tkpekr ng''qh''*cy k*f 0'I qf ''J ko ugnh''y wu''eqo o cpf u'wu''q'' ''dgecwug''nkh**g 'k Jh ci he**qqr gtcvkqp''cpf ô õ öô eqqr gtcvkqp cuukuvcpeg''ku''pqv'r quukdng0'

J cf tcv': $Crk'^*$ : t-'uckf ''vq''c''egt vckp''r gtuqp''y j q''y cu''r tc{kpi .''õQ'' I qf #'F q''pqv''o cmg''o g''kp''pggf ''qh'r gqr ngö<br/>"õVj ku''ku''pqv'c'' eqttgev''ugpvgpeg0'Kpuvgcf .''{qw''uc{.'':Q''I qf #'F q''pqv'o cmg''o g''kp'' pggf ''qh''dcf ''r gqr ngø'dgecwug''nthg''y kj qwv'eqqr gtcvkqp''cpf '' cuukuvcpeg''ku''ko r quukdng0ö

Cp{qpg'y j q'y qwf 'ukpegtgn{ 'uc{.'õ*K*{*cmc 'pc ÷dwf*.ö'j cu'pq'' o qtg'ugpug''qh'r tkf g. 'xcpkx{ ''cpf ''gi qkuo .''cpf 'j g''ku''qdgkucpv''cpf '' uwdugtxkgpv''vq''y g''f kxkpg''eqo o cpf u0J g''mpqy u''y cv'ukpeg''I qf '' j cu''dguvqy gf ''uq''o wej ''i tceg''wr qp''j ko .''y g''dguv''qh'' uwdo kuukxgpguu''o wuv''dg''uj qy p''kp''J ku''r tgugpeg0'

J g'y qwf 'ucpf 'hmg'cp'cduqnwg'ugtxcpv'lp'htqpv'qh'j ku" Cduqnwg'O cuvgt 'cpf 'j vo dn{ 'uc{.'õKco 'vj g'ugtxcpv'cpf '[ qw'' ctg''j g'O cuvgt0'Kj cxg''pqdqf { ''gnug''gzegr v'[ qw0'Dwv'[ qw'j cxg'' o cp{ ''qvj gtu'cr ctv'htqo ''o g0[ qw'ctg''pggf nguu''qh''o { ''y qtuj kr 0' Qp''y g''eqpvtct{.'Kco ''cduqnwgn{ ''kp''pggf ''qh'[ qwt''i tceg''cpf '' i gpgtqukv{.''cpf ''Kj cxg''vq''wtp''vq'[ qw''hqt''j grr ''cny c{u0o ''

#### õKjfkpcøu/uktcv'cn/owuwcskoö'}Iwkfg'wu'dp'vjg'Uvtckijv' Rcvj;

Vj g''ectcxcp''qh'etgcvlqp'ku''eqpuvcpvn{ 'o qxkpi ''vqy ctf 'I qf.''vj g'' Gzcngf *<õVqy ctf 'J ko 'ku''j g'tgwtpö*]484\_''cpf 'o cp''ku''cnq'' gpf gcxqtkpi ''cpf ''o qxkpi *<õ[ qw'ctg'hcdqtkpi ''qy ctf '{qwt '' Nqtf ö*]485\_''cpf ''kp''gxgt{ ''o qxgo gpv.''vj gtg''ku''qpn{ ''qpg''uvtcki j v'' r cyj ''cpf ''cm''qy gt''r cyj u''ctg''f gxkcpv0'Kmco ''j cu''cnq''f gvgto kpgf '' dqyj ''yj g''r cyj ''cpf ''i wkf g''hqt''yj ku''o qxgo gpv.''ur geldkgf ''yj g'' f guvkpcvkqp."cpf 'i kxgp"o cp''y g"o gcpu"qh'y c{hctkpi 0Cpf 'kv'ku" wu'y j q"j cxg''vq"ej qqug''y j kej ''y c{ ''vq''vtcxgtug0

I qf 'j cu'gpf qy gf 'y g'f guktg'hqt'i tqy y .'r gthgevkqp'cpf 'y g'' s wguv'hqt''twj 'kp''y g'f gr y ''qh''y g''uqwd'cpf 'y g''pcwtcd' f kur qukskqp''qh'gxgt { 'j wo cp''dgkpi 0'Kh''y g{ ''ctg''pwtwtgf 'kp''y g'' nki j v'qh''y g''yccej kpi u''qh''y g''r tqr j gw'\* $\div \pm$ ''y ku'f guktg''cpf '' gpf gcxqt''y kn'gctp''y g''ur gekcn'hcxqt''qh'I qf  $< \tilde{o} Cu'hqt''y qug'y j q'''$ ctg'}tki j w{ i'i wkf gf .'J g'gpj cpegu'ij gkt'i wkf cpeg(b]486\_

Vj g'S wtøcp''cmu''cdqwi''y q''v{r gu''qh'i wkf cpeg0'Qpg''ku'' etgcvkqpcn'i wkf cpeg''}*j kf c{cv/g''vcmy kpk*; ''uwej ''cu''y g''i wkf cpeg'' gpf qy gf ''y g''j qpg{dgg''cdqwi'j qy ''q''uwen'y g''pgevct''qh''nqy gtu'' cpf ''j qy ''q''o cmg''j qpg{0'Vj g''qy gt''v{r g''qh'i wkf cpeg''ku'' tgrki kqwu''i wkf cpeg''}*j kf c{cv/g''vcuj t k:k*; ''y j kej ''ku''ur gekhke''vq'' j wo cp''dgkpi u''cpf ''kv'tghgtu''vq''y g''kpuvt wevkqpu''qh''y g''f kxkpg'' r tqr j gw''\*-c+0

### Y j lej 'qpg'lu'tj g'Utt cli j v'Rc vj '}Utt cv'CnO wuxcs lo ;A

Vj g''y qtf ''õ *kt c* ö''y j kej ''j cu''dggp''o gpvkqpgf ''kp''y g''S vt¢cp''o qtg'' y cp''62''vko gu''o gcpu''c''r cyj ''y cv''ku''r gto cpgpv.''nvo kpqvu''cpf '' y kf g0'Vj gtg''ctg''pwo gtqvu''r cyj u''kp''y g''hkhg''qh''o cp''qpg''qh''y j kej '' j cu''vq''ej qqug<

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Vj g''r cy ''qh'qpgøu''f gukt gu=''y g''r cy ''qh'r gqr ngøu''kpenkpcvkqpu=''y g''
r cy ''qh'y g''c i j wu=''y g''r cy ''qh''qwt ''cpeguvqtu''cpf ''y g''
r tgf geguuqtu''kp''vgto u''qh''gy pke''cpf ''tcekcn'hcpcvkekuo u=''y g''r cy ''
qh'ucvcpke''kpukpwcvkqpu=''y g''wpej ctvgf ''r cy u=''cpf ''hkpcm{.''y g''
r cy ''qh'I qf ''cpf ''y g''f kxkpg'uckpvu0
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KV ku'pcwtch'y cv'y g'r gtuqp'y j q'dgrkgxgu'kp'I qf 'y qwrf 'ej qqug" y g'r cy 'qh'I qf 'cpf 'y g'f kxkpg'uckpw'cmpg'dgecwug'y ku'r cy " j cu'o gt kw'y j kej 'y g'qy gt 'r cy u'f q'pqv'r quuguk<

""Vjg'utcki j v'r cyj 'ku''y g''uj qtvguv'tqwg''dgwyggp''wq" r qkpu0Uq.''y ku'ku''y g'hcuvguv'yc{ ''vq''cttkxg''cv''yg''fguvkpcvkqp0 "

"Vj g'f kxkpg'r cy 'ku'r gto cpgpv0'KV'ku'eqpvtct { '\q''qy gt"
r cy u'y j kej 'ej cpi g''gxgt { f c { ''ceeqtf kpi ''\q''qpgøu'f guktgu''qt''
y g'f guktgu''qh''qy gtu0
""

"""Vj ku'ku''y g''y c{ ''y cv'ngcf u''vq''y g'f guvkpcvkqp.'K0g0'y g'' r ngcuwtg''qh'I qf.''kp''y j kej ''y gtg''ku''pq''f ghgcv'cpf 'hcknwtg0'

······Vj g'utcki j v'r cyj 'ku''y g''y c{ "qh'I qf <õ Kpf ggf 'b { 'Nqtf '' ku''qp 'c 'lat c ki j v'r c y (b]487\_''

<sup>------</sup>Vj g''utcki j v'r cy ''ku''y g''xgt { ''r cy ''qh''y g''r tqr j gu''\* $\div$   $\leftarrow$   $\tilde{o}[ qw' ctg' lpf ggf ''qpg' qh' ly g' cr quwgu ''qp' c' lot c li j v'' r cy (b)]488_$ 

"""Vj g'utcki j v'r cyj 'ku''y g'r cyj ''qh''ugtxkwf g''vq''I qf < $\tilde{o}Y qtuj kr'O g0Vj ku'ku'c' lutcki j v'r cyj 0b]489_$ 

"""Vj g'utcki j v'r cy 'ku'ý g'r cy ''qh''t wuv'cpf ''t ghcpeg''qp" I qf  $\langle \tilde{o} Cpf' \rangle j qgxgt' ' c mgu't geqwt ug'hp 'Cncj' 'ku'egt whp n{'' i whf gf'' q'c' lut chi j v'r cy (b] 48:_____"$ 

O cp''uj qwf ''wtp''q'I qf 'hqt'j gr 'kp''ej qqukpi ''y g'' cy ''cu'y gri' cu'kp''tcxgtukpi ''cpf ''nggr kpi ''qp''y g''r cy 0'KV'ku'l'wuv'hkng''cp'' grgevtke''rco r ''y cv''uj qwf ''eqpvkpwqwun{ ''tgegkxg''grgevtkekv{ ''htqo '' y g''o ckp''uqwteg''kp''qtf gt''vq''nggr ''crki j v0'Vj wu. ''pqv''qpn{ ''y g'' eqo o qp''r gqr ng''dw''cruq''y g''r tqr j gvu''qh'I qf ''cpf ''y g''kphcmkdng'' Ko co u'\* $\div$ +'j cxg''vq''r tc{ ''q''I qf ''vq''nggr ''y go ''qp''y g''uvtcki j v'' r cy 0'

 $P qv'qpn\{ "kp"r tc \{ gt "dw'tcy gt "kp"cm'eqpf kkqpu"cpf "kp"gxgt \{ " vcum"y j gy gt "kv"ku"kp"ej qqukpi "qpgøu"qeewr cvkqp"qt "htkgpf ."kp" o cttkci g"cpf "kp"uwwf kgu."o cp"uj qwrf "cny c { u"r tc { 'vq"I qf "vq" mggr "j ko "qp"y g"uvtcki j v"r cy 0"KV ku"dgecwug"y gtg"ctg"o cp { " ecugu"y j gp"c"egtvckp"r gtuqp"j cu"eqttgev'dgrkghu"dw'j g"j cu" uj qtweqo kpi u"kp"r tcevkeg"cv'vko gu"gxgp"cevkpi "vq"y g"eqpvtct { 0' Vj g"uvtcki j v"r cy "ku"y g"o kf f rg"r cy "qh"o qf gtcvkqp0"Ko co "÷Crk" *;c+"uc { u<" t$ 

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õNghv'cpf 'tki j v'ctg'f gxkcvkqpu''cpf ''y g'r cy ''qh'hgnkekv{ 'ku''y g'' o kffng''y c{@]48; \_''''

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Vj g''utcki j v'r cy ''o gcpu''q''nggr ''cnqqh'htqo ''cp{''uqtv'qh''
ko o qf gtcvkqp"}kt c ; ''cpf ''r tqhrki ce{''}wh k ; =''pgkj gt''y g''f gpkcn''
qh''twj ''pqt ''gz vtgo kuo ''kp''twj =''pgkj gt''r tgf guvkpcvkqp''}lcdt ; ''
pqt ''F kxkpg'T guki pcvkqp''}why k ; =''pgkj gt''kpf kxkf wcrkuo ''pqt''
eqmgevkxkuo =''pgkj gt''o gtg''y gqt{ ''pqt''o gtg''r tcevkeg=''pgkj gt''
y qtnf rkpguu''pqt''qy gty qtnf rkpguu=''pgkj gt ''pgi rki gpeg''qh''y g''
Vtwj '*I qf +''} css; ''pqt''f kutgi ctf ''hqt''y g''r gqr ng''}nj cns; =''
pgkj gt ''kpvgngewcrkuo ''pqt''go qvkqpcrkuo =''pgkj gt''nqtdkf f cpeg''
qh'i qqf ''f ggf u''pqt''r nwpi kpi ''kpvq''ectpcrif guktgu=''pgkj gt''
uvkpi kpguu''pqt''gz vtcxci cpeg=''pgkj gt''eqxgvqwupguu''pqt''hrcwgt{=''
pgkj gt 'hgct''pqt''ko r gwqukv{=''gve0
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Cu'c'o cwgt ''qh'hcev.''y g'j cxg''vq''cny c{u'cf qr v'y g''o kf f ng''r cy ''qh'' o qf gtcvkqp''kp''dgnkgh''cpf ''y qwi j v'cu''y gm'cu''kp''dgj cxkqt ''cpf '' cevkqp0

Kp"o qxkpi "cmpi 'ý g"utcki j v'r cý .'y g"j cxg'vq"cny c{u'uggn' cuukuvcpeg'htqo 'I qf 'dgecwug'ý ku'r cý 'ku'pcttqy gt'ý cp"c"j ckt" cpf 'uj ctr gt'ý cp"c'uy qtf ."cpf "gxgt{"o qo gpv.'ý gtg"ku'ý g" f cpi gt"qh'hemkpi 'f qy p0'Vj g"qpg'y j q'y km'r cuu'd{ 'ý g"utcki j v" r cý "qp'ý g'F c{"qh'T guvttgevkqp"ku'j g'y j q"f kf "pqv'f gxkcvg"htqo " ý g'utcki j v'r cý "qh'I qf "kp'ý g'y qtnf 'y j gý gt "kp'ý g'hqto "qh" kpvgmgewen'f gxkcvkqpu''qt 'r tcevkecn'cpf 'o qtcn'f gxkcvkqpu0' "

Qpg''dgnkgxgu''kp''r tgf guvkpcvkqp''cpf ''cwtkdwgu''vq''I qf ''cm''cevkqpu." cu''kh'o cp''j cu''pq''tqng''kp''ej ctvkpi ''j ku''qy p''f guvkp{ ''cu''kh'j g''ku'' y kj qwv''eqpvtqn''cpf ''y km0'Cpf ''y g''qy gt''qpg''tgi ctf u''j ko ugnh''cu'' y g''uqng''cevqt''qh''cm'j ku''f ggf u. ''eqpukf gtkpi ''y g''j cpf ''qh''I qf ''cu'' vkgf 0'

Qpg''tgcvu''y g''j gcxgpn{ ''gcf gtu''cu''eqo o qp''r gqr ng''y j kng''y g'' qy gt''qpg''gngxcvgu''y go ''q''y g''uvcvvu''qh'f kxkpkv{ .''eqpukf gtkpi '' cn'O cuk ''\*'y g''Ej tkuv+''\* $\div$ +''cu''y g''uqp''qh'I qf .''pc{''I qf ''J ko ugn## ''

Qpg''o ckpvckpu''ý cv'/ k{ ctcj "}r c{kpi 'j qo ci g; "cpf " vcy cuuwn]492\_''ctg''cewi'qh'r qn{ ý gkuo "}uj ktm; 'y j krg''ý g''qý gt" tguqtwi''q''gxgp''c''tgg''qt''c''y cm#'F wg''q''o kur ncegf 'lgcnqwu{."qpg" f qgu''pqv'cmqy 'j ku''y khg''q'i q''qwi'qh''ý g''j qwug''y j krg''ý g''qý gt" qpg."qwi'qhi'f cuvctf nkpguu."ugpf u'j ku'y khg''vq''y g''cmg{ "cpf "o ctmgv" y kj qwi'j cxkpi "r tqr gt "Knco ke "o qf guv'f tguu"} klcd; 0 "

Cm'qh'ý g"cdqxg"ctg"f gxkcvkqpu'htqo "ý g"eqwtug"qh'ý g"uvtcki j v" r cý 0I qf 'uc{u<

### ' jä ßäáäæ á á á á á á á á á á

õUc{.'+Kpfggf'b {'Nqtf'] cu'i wkfgf'b g'kq'c'lutcki j v'rcvj.'kjg'' wrtki j v'tgnki kqp0b]493\_

Gnugy j gt g'Uvcvgu≺

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### ¨``ä``ââââ`ãââßâ<sup>3</sup>ãããã

 $\tilde{o}Vj$  wu'Y g'j cxg'b cfg'{qw'c'b kffrg'pcvkqp'lj cv'{qw'b c{'lg'' y kpguu'lq'lj g'r gqr rg0j494\_

KVj cu'dggp'tgeqtf gf 'kp''y g''tcf kkqpu''y cv'y g''kphcnkdng''Ko co u''  $*\div +$ 'wugf ''q''uc {<õY g''ctg''y g''utcki j v'r cy 06''Vj cv'ku.''y g''cewcn'' cpf ''r tcevkecn'utcki j v'r cy .''cpf ''y g''o qf gn'cpf ''r ctcf ki o ''qp'' j qy ''q''tcxgtug''y ku''r cy ''ctg''y g''j gcxgpn{ ''ngcf gtu0

Kp''y gkt 'kput we kqpu't gi ctf kpi ''cm'cur gewi'qh'hkhg''uwej ''cu'y qtm'' gpvgt vckpo gpv.''uwwf kgu. ''etkklekuo .''i kxkpi ''qh'ej ctkv{.''cpf '' gzr tguukqpu''qh'kpvgtguv.''qxg.''cpi gt.''cpf ''j cto qp{.''y g{ ''j cxg'' cny c{u''cf o qpkuj gf ''wu''vq''gzgtekug''o qf gtcvkqp''cpf ''gs wkkdtkwo 0' Vj gug''kput we vkqpu''j cxg''dggp''tgeqtf gf ''kp''y g''pqdng''W wn'cn/Mc/K'' wpf gt ''y g''j gcf kpi .'' $\delta$ Cn/Ks vk cf ''Høn/-Kalcf cvö''}O qf gtcvkqp''kp'' Cevu''qh'Y qtuj kr; 0

Cv'ý ku'r qkpv.''y g''uj cm's wqvg''uqo g'S wt¢cpke''xgtugu''cpf " Rtqr j gvke''tcf kkqpu''kp''y j kej ''o qf gtcvkqp''j cu''dggp''go r j cukt gf " y j krg''i qkpi ''vq''gz vtgo gu''j cu''dggp''r tqj kdkvgf <"''

 $\cdots \tilde{o} Gcv'cpf'ft lpm'dwv'fq'pqv'y cuvg@]495_$ 

"""" õFq'þqv'hggr '{qwt 'j cpf 'bj chpgf 'kq'{qwt 'bgem'bqt ''
qrgp 'kv'c ntkqi gyj gt (b]496\_

·······õVj qug'ý j q.'ý j gp'lr gpf kpi.'ctg'þgkj gt 'ý cuvghwhþqt'' vki j vhuvgf.'cpf'b qf gt cvkqp'hgu'dgvy ggp'lj gug'' }gz vt go gu;05]497\_

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""""õDg'þgkj gt 'hqwf 'kp'{qwt 'r t c{gt. 'þqt 'b wt o wt 'kv. 'dwv'' hqnqy 'c 'b kf f ng'eqwt ug'dgwy ggp 'lj guglö]498\_

"".....õCpf 'ij qug'ij q'ctg'ij kij 'j ko 'ctg'j ctf 'ci ckpuv'ij g'' hckij rguu'cpf 'b gtekhwrlco qpi 'ij go ugncgulb]499\_

""" õCpf 'lj qug'y j q'j cxg'hckj 'cpf 'f q'tki j vgqwu''
fggf uí ö]49; \_'Vj cv'ku.''dqvj 'hckj ''cpf ''eqpxkevkqp''qh''y g''
j gctv.''cpf ''tki j vgqwu''f ggf u''cpf ''dgj cxkqt''ctg''tgs wktgf 0

""" Cnj qwi j ''y g''S wtøcp''uc {u. ' $\tilde{o}Cpf'fq'i qqf''y g''$   $rctgpwi \ddot{o}_{4:2_'}$  " p''cpqy gt''r meg'' kv''ucvgu'' qp''y g''eqpvtct {  $< \tilde{o}$  \* Dwv' kti y g{ ''wt i g'{qw'' q'cuet kdg'' q'O g'cu'r ct vpgt 'y cv' qh'' y j kej '{qw'j cxg' pq' hpqy ngf i g. +'y gp'fq' pqv' qdg{ '' y go  $\ddot{o}_{4:3_}$ 

"""õDg'y kpguugu'hqt 'ij g'ic mg'qh'Cncj.'gxgp 'kikv'lij qwnf '' dg'ci c kpuv'{qwt ugnxguö]4: 4\_"cpf "õCpf 'knihggnkpi 'hqt 'c'' r gqr ng'lij qwnf 'pgxgt 'lgcf '{qw'iq'dg'wphckt (b]4: 5\_

""" Qp"'y g"pki j v"qh": Cuj wtcø"Ko co "cn'J wuc{p"\* $\div$ +'y cu" rtc{kpi "kpvko cvgn{"vq"I qf "cu'y gm"cu'uj ctr gpkpi "j ku'uy qtf #

"-----Vj g"r kni tko u"qh'ý g"J qwug"qh'I qf "ctg"r tc{kpi "qp"ý g"
F c{ "qh":Ctchcj "cpf 'ý g"pki j v'r tgegf kpi 'ý g"Hgcuv'qh"
Ucetkhkeg"} -/f "cn's wt dcp; ."dwi'qp''ý g"f c{ "qh'ý g"hgcuv'ý g{"
j cxg'\q'i q'\q'ý g''uncwi j vgtj qwug"cpf 'hco krkctk g''ý go ugrxgu"
y kj "drqqf #

""Cpf 'hkpcm{. 'Kurco 'ku'pqv'qpg/f ko gpukqpcn'cpf 'j cu'pqv' hqewugf ''qp''qpn{ ''qpg''cur gev'y j krg''pgi rgevkpi ''qyj gtu0Tcyj gt." kv'j cu'r ckf ''cwgpvkqp''vq''cm''y g''f ko gpukqpu''qh''nkhg''kp''c'' dcrcpegf ''o cppgt0

..

### õUkt cv'čmɛf j kpc'cp-co vc'+cnɛ{ j ko 'i j c{tkøn/o ci j f wdk' -cnɛ{ j ko 'y c'hɛf/f cmkpö'}Vj g'r cvj 'dhi'vj qug'y j qo '[ qw'j cxg'' dngungfô uwej 'cu'j cxg'þqv'kpewttgf '[ qwt 'y tcvj .'þqt 'ctg'' cuvtc{;

Chugt"cumhpi "hqt"i wkf cpeg"cmpi "ý g"uvtcki j v"r cý ."ý g"qpg" r tc{kpi "dguggej gu"I qf "vq"nggr "j ko "cmpi "ý cv"r cý "ý j kej "j cu" dggp"ý g"r cý "qh"ý qug"y j q"j cxg"gctpgf "f kxkpg"i tceg0ľkp"*Uwt cj " cp/Pkucø.*"xgtug'8; "cpf*"Uwt cj "O ct{co.*"xgtug'7: ."ý g"S vtøcp" f guetkdgu'ý ku'i tqwr 0J gtg."y g"uj cm"ekkg"dgnqy "ý g"hqto gt" tghgtgpeg<

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õY j qgxgt 'qdg{u'Cncj 'cpf 'ij g'Crqungô vj g{'ctg'y kj 'ij qug'' y j qo 'Cncj 'j cu'dnguugf. 'kpenwf kpi 'ij g'rt qrj guu'cpf 'ij g'' vt wvj hwn'ij g'b ct v{tu'cpf 'ij g't ki j vgqwulb]4:6\_

Vj g'r gtuqp'r tc{kpi 'ku'kpxqmkpi 'I qf '\q'kpenwf g'j ko 'kp'\j g'tcpmu'' qh'y g'r tqr j gu. 'y g'\twj hwn''y g''o ctv{tu'cpf ''y g''tki j vgqwu0' Cur ktkpi 'hqt''y ku'r cy ''qh'y g'wr tki j v'cpf 'r wtg''qpgu'r tqvgewu'' htqo ''y g'r gtkn'qh'f gxkcvkqp''cpf ''cdgttcvkqp.''cpf ''y gkt''o go qt{'' cpf ''tgo kpkuegpeg''ctg''cny c{u'cnkxg'kp''y g''j gctv'qh''y g''qpg'' r tc{kpi 0

### Y j q'ctg'tj qug't j q'ctg'cuxtc{ 'cpf 'j cxg'kpewttgf 'tj g'f kxkpg'' y tcvj A

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Kp''ý g'S wtøcp.'kpf kxkf wcnu'uwej "cu''ý g''Rj ctcqj .'S ctwp''\*Mqtcj +" cpf 'Cdw'Ncj cd.''cu''y gm'cu''eqo o wpkkgu''uwej ''cu''ý g''r gqr ngu''qh'' -Cf ''cpf ''Vj co wf ''cpf ''ý g''Ej kff tgp''qh''Kutcgn'j cxg''dggp'' f guetkdgf ''cu''ý qug''y j q'j cxg''kpewttgf ''ý g''f kxkpg''y tcý 0'Kp'' gxgt{ ''rtc{gt.'y g''cun'I qf ''hqt''wu''pqv''q''dg''hmg''ý gug''kpf kxkf wcnu'' cpf ''eqo o wpkkgu''ý cv'j cxg''kpewttgf ''f kxkpg''cpi gt''cpf ''y tcý ''kp'' dgngh ''o qtcnkv{ ''cpf ''f ggf u0''''

Vj g'Ej krf tgp"qh'Kutcgn'y j qug'ceeqwpv'cpf "ekxkrk cvkqp'j cxg" dggp"o quv'htgs wgpvn{"o gpvkqpgf "kp'yj g'S wt¢cp."yj g{ 'y gtg"qpeg" uwr gtkqt 'vq"cm'yj g'r gqr ng'qh'yj gkt 'vko g0'Eqpegtpkpi 'yj go .'I qf "

Vj g''Lgy kuj ''uej qnctu''f kuvqtvgf ''y g''j gcxgpn{ ''eqo o cpf o gpvu''qh'' y g''*Vcy tcj* ''\*Vqtcj + $\frac{1}{4}$ : 9\_''õ*Vj g{ 'r gt xgt v'y qtf u'\*ht qo ''y gkt ''* o gcp kpi u+ $\frac{1}{6}$ ]4:: \_''Vj g''vtcf gtu''cpf ''y g''y gcnj { ''co qpi ''y go '' gpi ci gf ''kp''wuvt { ''}*t kdc ø*; ''cpf ''r tqhkvggtkpi < õ*Cpf 'hqt ''y gkt ''* wcmkpi ''wuwt { í ö]4: ; \_''Cpf ''kp''tgr n{ ''vq''y g''ecm'hqt''*lij cf '*cpf '' uvtwi i ng. ''y g''eqo o qp''r gqr ng''tghvugf ''q''i q''q''y g''dcwrght qpv'' qwi'qh''ugrh'r tgugtxcvkqp''cpf ''hgct. ''y wu''uc { kpi ''q'O wuc''\* $\cdot e$  +<''

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õI q'cj gcf.'{qw'cpf'{qwt 'Nqtf.'cpf 'hi j v#'Y g'y kn/dg'ikvkpi '' tki j v'j gtg(b]4; 2\_

Vj g''uco g''kpvgmgewcn'cpf ''r tcevlecn'f gxlcvlqpu'o cf g''I qf " tgo qxgf ''y go ''htqo ''y g''r kppceng''qh'i mt{ ''\q''y g''cd{uu''qh'' cdlgevpguu''cpf ''ki pqo kp{0

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Uq."kp"gxgt { "r tc { gt. "y g"j cxg"vq"ko r mtg"I qf "ý cv"y g"dg"pqv"qh"

y g"r gqr mg"y j q"f kuvqtvgf "ý g"Dqqm"qh"Cmcj . "ý g"r gqr mg"y j q"

vqqm"wuwt { . "cpf "ý g"r gqr mg"y j q"hrgf "htqo "y ct"cpf "llý cf ="

uko krctn{ . "ý cv"y g"uj qwrf "pqv"dg"co qpi "ý g"o kui wkf gf "qpgu="

y qug"y j q. "hkmg"muv"r gtuqpu. "ctg"uvdlgev"vq"cdlgevpguu"cpf "

ki pqo kp{ . "cpf "gxgt { "o qo gpv."y ký qw"j cxkpi "c"r tkqt "cko . "ý g{"

y cpf gt "cdqw="ý g{ "hxg"cu"qr r qt wpkuvu"cpf "j cxg"pq"y kn"cpf "

r qy gt"qh"ý gkt "qy p0
```

Vj qug''y j q''ctg''cuvtc {ô õ *cnl*pöô ctg''pqv'hkng''y g''dnguugf " qpguô õcp $\div$ o w'' $\div$ m {*j* ko öô y j q''j cxg''dggp''kpenwf gf ''kp''y g'' tcpmu''qh''y g''r tqr j gu''cpf ''y g''t ki j vgqwu.''cpf ''ctg''pqv'hkng''y qug'' y j q''j cxg''kpewttgf ''y g''f kxlpg''y tcy ô õ*cn'o ci j wdk''*  $\div$ m {*j* ko öô y j q''ctg''y ci kpi ''y ct''ci ckpuv'y g''tgnki kqp''qh'I qf 0' Kpuvgcf .''y g{''ctg''kpf khgtgpv.''kpf qngpv''cpf ''eqo hqtv'uggnkpi '' kpf kxkf wcni'y j q. ''hkng''cpko cnu.''ctg''qpn{''y kpnkpi ''qh'y g''uvqo cej '' cpf ''y g''nguj .''y kj qw''ectkpi ''hqt''twj ''cpf ''hcnugj qqf 0' Hqt''y go .''kv'o cmgu''pq''f khlgtgpeg''y j gy gt''y g''r tqr j gwl'qt''y g'' *vc i j w*u''ctg''twrkpi 0'Y j cv'ku''ko r qtvcpv'hqt''y go ''ku''y cv''y g{''hxg'' kp''o cvgtkcn'eqo hqtv'cpf ''gcug='cp{qpg'y j q''rkmgu'o c{''twng0'Vj ku'' ku''y g''i tqwr ''qh''y g''o kui wkf gf ''qpgu''dgecwug''y g{''j cxg''pqv'' ej qugp''c''ur gekhle''y c{''hqt''y go ugnxgu0

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Vj ku''xgtug."õ *ktc "cmcf j kpc"cp ÷co vc "÷m{ j ko " i j c{t køn'o ci j wdk"÷m{ j ko "y c "nc / cmkp*.ö''ku''y g''r gthgev" uj qy ecug"qh''*vcy cmc* "}dght kgpf kpi "y g''t wj hwd'qpgu; "cpf " *vcdcttc*"}cxqkf kpi "y g''r gqr ng"qh'henugj qqf ; 0'"

Cv'ý g"gpf "qh"*Uwt cj "cn/Hcvk cj*."ý g"r gtuqp"r tc{kpi "gzr tguugu" j ku'mxg. "hqpf pguu"cpf "*vcy cmc* "hqt"ý g"r tqr j gvu. 'ý g"o ctv{tu" cpf "ý g"tki j vgqwu. 'cu'y gm'cu'j ku'f kucxqy cn"}*dctc ¢cj*; "cpf" tgpwpekcvkqp"}*vcdctt c*; "qh'ý g"o kui vkf gf "cpf "ý qug'y j q"j cxg" gctpgf 'ý g"f kxkpg"y tcý 0'Vj ku"gzr tguukqp"qh"cxgtukqp"vqy ctf " ý g"f gxkcpv"cpf 'ý qug'y j q"j cxg"kpewtgf 'ý g"cpi gt"qh"I qf "kp" gxgt { 'r tc{gt"o cmgu'ý g"Kurco ke"uqekgv{ 'hkto "cpf "tgukuvcpv"vq"y g" ceegr vcpeg"qh'ý gkt"twg0'Vj g'S wt*ø*cp"ý wu"gzj qtw<"

### " · ¿¿

õFq'þqv'dght kgpf'c'rgqr ng'cv'ý j qo 'Cncj'ku'ý tcý hwn0ö]4;3\_"

]444\_"O wwcf t cm<sup>i</sup>cn'Y cuc dn"j cf kj '65870 ]445\_"Vj g'pwo dgt 'õugxgpö'ku'ý g'pwo dgt 'qh'ý g'j gcxgpu. 'ý g" f c {u'qh'ý g'y ggm'ý g'ektewo co dwrcvkqp"} cy ch 'qh'ý g"  $Mc \neq dcj$ ." $uc \neq k$ "} dtkuniy cmkpi 'qt'lqi i kpi ; 'dgwy ggp'ý g'o qwpvu'qh" chc'epf 'O cty cj ."cpf 'ý g'pwo dgt'qh'uvqpgu'vq'dg'ý tqy p'cv'ý g" tgr tgugpvcvkqpu'qh'Ucvcp'f wtkpi 'ý g" cll'tkwcn0' ]446\_"Vchukt 'Mcp/ 'cf/F cs c ds 0 ]447\_"Dk ct 'cn'Cpy ct.'xqn0'; 4.'r 0'4790 ]448\_"Uwt cj 'J wf ''33 <630 ]449\_"Uwt cj 'Cp/P co n'49 <52 < $\tilde{o}$  K/ku'ht qo 'Uqnqo qp.'cpf 'kv'dgi kpu'' kp'ý g'pco g'qh'Cmcj ."ý g'Cm/dgpghægpv.'ý g'Cm'o gt ekhwn0; ]44:\_"Dk ct 'cn'Cpy ct.'xqn0'8.'r 0'5: 70 ]44:\_"Mcp/'cn'  $\neq$  wo o cn'j cf kj '4; 77: 0 ]452\_"Vchukt 'Dwtj cp.'xqn0'3.'r 0'650

#### <u>]453\_</u>"*O wavef t c mic n' c mivo*."xqr0/5."r 0/4550

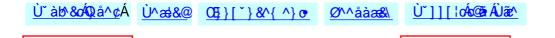
]<u>455\_</u>"*O wupcf 'Cj o cf 'Klp" cpdcn*"xqr05."r 0399="xqr06."r 0: 70 ]<u>456\_</u>"*Uwt cj "cn/C+rc*": 9⊰30

]457\_"Unt cj "cn/S c c "4: <: <õGxgt { y kp i 'ku'kq 'r gt kuj 'gz egr v''

#### J ku'Hc eg(b

|458\_"Untcj "cn/C≠ch93:20 ]459\_"Vchukt "Pgo wpgj."xqr09."r 0490 ]45: \_''Untcj 'Oct{co ''3; &70 ]45; \_"Untcj "cn/Cp÷co '8⊲360 **]462\_"***Uwtcj* " *c* " *c* "42*⊲*20 **]**463\_"Untcj "cn/Kutcø'39∢420 ]<u>464\_</u>"Untcj "cn'C+tch9<760 ]465\_''Uwt cj ''cn' Hcvkj cj ''340 ]466\_''Unt cj ''[ wpwu''32<320 ]467\_''Uwtcj "cn'Cp÷co '8340 ]468\_"Uwt cj "cn/Cpdk{c\$'43\$290 ]469\_"Uwtcj "ct/Tc ocp"773/40 ]46: \_''Uwtcj ''Cn''-Ko tcp''5<480 ]46; \_''Uwt cj "cn/I j cht "\*qt"cn/O wøo kp+'62<380  $472\_"Uwtcj$  'Katcj ko '36<6: ="Uwtcj 'cn/I j cht '\*qt"cn/O wo kp+" 62380 ]473\_"Untcj "Ch"-Kotcp"5-3;0  $474''U_{t} c j'' c / \wedge wo c t''5; <50$ ]475\_''Untcj "cfj/Fjctk{cv'73340 **476\_"***Untcj* "*cn* Kplkct": 4*⊲*: /3; 0  $477''_{U_{t}} = \frac{1}{2} \frac{1}$ ]478\_"Untcj "cn/Owo vc cpcj "82<50 ]479\_"Unt cj "cn' ]47: \_''Unt cj ''cn/I j cht '\*qt''cn/Owo kp+'62<50' ]47; \_"Uwt cj "cp/Pkucø"6< 20 ]482\_'F kxkpg'T guki pcvkqp''}w hy k; 'o gcpu''gcxkpi 'o cp''vq''j ku''

qy p"f gxkugu"cpf "uwur gpf kpi "vj g"f kxkpg"y km"ht qo "cp{ "ghgevkxg" tqmg0'}VtcpuQ ]483\_"Untcj "cn'C+tch9<650 ]484\_"Untcj "cn/Ocølf cj "73:0 ]485\_"Unt cj "cn' Kouj ks cs": 6<80 ]<u>486\_</u>"Unt cj "O wj co o cf '69⊲390 ]<u>487\_</u>"Unt cj "J wf "33<780 ]488\_"Uwt cj '[ c 'Up'58<5/60 ]489\_''Untcj ''[ c ''Up''58<830 ]48: \_''Untcj ''Cn''-Ko tcp''5<3230 ]48; \_'Dk ct ''cn'Cpy ct.''xqn0': 9.''r 0'50 ]492\_'Vcy cuum thegtcm{.'\q'tguqtv'\q'kpvgto gfkctkgu0' Vgej pkecm{.'kv'tghgtu'vq''y g'r tcevkeg''qh'r gykykqp'r tc{gt" cfftguugf "vq"I qf "vj tqwi j "c"j qn{ "r gtuqpci g"uwej "cu"c"r tqr j gv" }*pcdk*; ''qt''c''uckpv''}*y crk*; 0'}VtcpuQ '''' ]493\_"Uwtcj "cn/Cp÷co "8<3830 ]494\_"Untcj "cn/Dcsctcj "43650 |495\_"Untcj "cn/C≠ch9<530 ]<u>496\_</u>"Unt cj "cn' Kut cø'39⊲4; 0 ]497\_"Untcj "cn/Hwtscp"47<890 <u>]498\_</u>"Uwt cj "cn/Kut cø'39⊲320 ]499\_"Uwt cj "cn/Hcv "6: ⊲; 0 149: "Untcj "cn/Dcsctcj "4<650 ]49; \_''Untcj ''cn/Dcsctcj ''4<40 ]4: 2\_"Untcj "cn/Dcsctcj "4< 50 ]4:3 "Unt cj "cn'-Cpmcdwv"4; < 0 4:4 "Unt cj "cp/Pkucø'63570 ]4: 5\_"Unt cj "cn $O c \phi f c j$  "7< 0 ]4: 6\_"Unt cj "cp/Pkucø"6 $\ll$ ; 0 ]4: 7\_"Untcj "cn/Dcsctcj "4<690 ]4: 8\_"Untcj "cn/Dcsctcj "4<830 ]4: 9\_"Vcy tcj "\*Vqtcj +<'y g'uetkr wtg'tgxgcrgf '\q'Rtqr j gv'O wuc" \*O qugu+'\* $\dot{x}$ +'kp'ku'qtki kpcn'hqto 0'}VtcpuQ ]4::="Untcj"cnOcolfcj"7350]4: ; \_"Uwtcj "cp/Pkucø"63830 ]4; 2\_"Untcj "cn/Ocølf cj "7460 ]4; 3\_"Unt cj "cn'O wo w cpcj '82⊲350



#### Vj g'ko r qt vcpeg'qh'Uwt cj 'cn'Knj ncu

"

Kp ''y g''r tc { gt. ''chwgt ''*Unt cj ''cn Hcvk cj*. ''qpg''qh''y g''*unt cj* u''qh''y g'' S wtøcp ''o wuv'dg 'tgekwgf 0'Vj g''r gtuqp ''r tc { kpi ''o ki j v'ej qqug''cp { '' unt cj = ''qh''eqwtug. ''y ky ''y g''gzegr vkqp''qh''y g''hqwt ''*unt cj* u''kp'' y j kej ''r tquvtcvkqp''ku''qdrki cvqt { 0'

Co qpi ''y g''*uwt cj* u''tgekgf ''kp''r tc{gt."*Uwt cj ''cn' Knj nc* '\*qt" cvVcy kf+'ku''r tghgtcdng''cpf ''kp''y g''tcf kkqpu''kv''ku''y wu''gplqkpgf <' õ[ qw'j cxg''q''tgcf ''y ku''*uwt cj* ''kp''cv'ngcuv''qpg''qh''y g''*t cmɛj* u''qh'' r tc{gt''gxgt{fc{''uq''cu''vq''dg''co qpi ''y qug''y j q''ctg'' r tc{kpi 0<u>6</u>]4; 4\_''

Kp ''gto u''qh'ko r qt vcpeg. ''ý ku''*uwt cj '*ku''gs wch''q ''qpg''ý ktf ''qh''ý g'' S wt ¢cp. ''pc{''qpg''ý ktf ''qh''ý g''*Vcy t cj .* ''*Kplkn*<u>14; 5\_'</u>'cpf '' \ cdwt<u>04; 6\_''</u>Kh'ý ku''*uwt cj* ''ku''cnuq''tgekgf ''chugt''ý g''r tc{gt''cu''c'' r tc{gt''uwr r ngo gpv.''I qf''uj cm'i kxg''ý g''r gtuqp''ý g''i qqf pguu''qh'' y ku''y qtnf ''cpf ''ý g''j gtgchugt0'

Vj ku''uwt cj 'ku''uj qtv.''{ gv'ku''eqpvgpv'ku''xgt { 'uwdnko g0'Cu''Ko co " cu/Ucllcf '\* $\div$  +'uckf .''õUkpeg''J g''npgy ''yj cv'o gvkewnqwu''cpf " kpuki j vhwn'kpf kxkf wcnu''uj cm'go gti g''kp''yj g''hwwtg.''I qf ''tgxgcrgf " yj ku''uwt cj ''cu''y gm'cu''yj g''kpkkcn''xgtugu''qh''Uwt cj ''cn' cf kf 0 "

T gekcn'qh'ý ku'*uwt cj* 'ku'gplqkpgf 'pqv'qpn{ 'kp'r tc { gt0'kp'hcev." ht gs wgpv't gekcvkqp"qh'kv't go qxgu'ý g''gxkn'qh'v{ tcpvu''cpf ''gpuwtgu'' qpgøu'j qwug'ht qo ''o kuj cr u''cpf ''r gtknu0'

Uc-f "kdp"O w:ef j ."qpg"qh'ý g"eqo r cpkqpu"cpf "eqo o cpf gtu"qh" ý g"cto { "qh'ý g"O guugpi gt"qh'Cmcj "\*U+."y cu"dwtkgf "kp"ý g" ego gvgt { "qh"Dcs k:"kp"O gf kpc0'Vj g"Rtqr j gv"\*U+'r ctvkekr cvgf "kp" ý g"dwtkcn'tkgu"hqt"j ko "dctghqqvgf "cpf "uc { kpi <õP kpgv{ " ý qwucpf "cpi gnu"j cxg"eqo g"vq"r ctvkekr cvg"kp"ý g"dwtkcn'qh"Uc-f 0ö" Vj g"Rtqr j gv"\*U+'cungf "Lkdtcøkn'\*Ctej cpi gn'I cdtkgn+'\*÷c+<õY j cv" ku"ý g"tgcuqp"dgj kpf "{ qwt"eqo kpi "f qy p"cu"y gm'cu"ý cv'qh'cm' y gug''cpi gnu'hqt''y g''dwtkcn'qh''Uc÷f''kdp''O w÷cf j Aö''Lkdtcøkn'\*÷x+" tgr nkgf <'õKp''y j cvgxgt''uvcvgô uvcpf kpi .''ukvkpi .''tkf kpi .''qt" y cmkpi ô j g''vugf ''vq''tgekkg''y g''*uwt cj .''õUc { . ''÷J g''ku''Cncj .''y g'' Qpgø*0ö''''''

Eqpegtpkpi 'ý g'ektewo uvcpegu'uwttqwpf kpi 'ý g'tgxgrcvkqp'qh' y ku'*uwt cj*.'y g'tgcf 'ý cv'ý g'Igy u.'Ej tkuvkcpu'cpf 'ý g'' kf qn'y qtuj kr r gtu'cungf 'ý g'Rtqr j gv'\*U+'cdqwi'I qf <õF guetkdg'' {qwt 'I qf 'vu0ö'Kp'tgr n{ 'vq'ý go .'ý g'Rtqr j gv'\*U+'tgeksgf 'ý ku'' *uwt cj* 0'Vj ku'*uwt cj* 'ugtxgu'cu'ý g'õkf gpvkv{ 'ectf ö''qh'I qf 0 ''

### õS whj wy cøncj w'cj cf ö

"

```
\label{eq:Vcy_kf} $$Vcy_kf'''$ o qpqyj gkuo; "ku''y g''o quv'hxpf co gpvcn'r tkpekr mg''qh''cm'' j gcxgpn{ 'tgrki kqpu''cpf ''y g''r tqr j gwu'* $$\varepsilon + "j cxg''eqo g''q''' grko kpcvg''y g''ghhgewu''qh'r qn{ y gkuo .''f kudgrkgh''cpf ''kf qn' y qtuj kr '' cpf ''q''kpxkg''o cpnkpf ''qy ctf ''I qf 0 "''
```

```
Vcy \ k ''ku''y g''ur ktk'cpf ''ngtpgn'qh''y g''yccej kpi u''qh''y g''r tqr j guu'' *÷ +0'P qv''qpn{ ''dgnghu''dwv'cnuq 'ncy u''cpf ''o qtcnkv{ ''tgxqnxg'' ctqwpf ''y g''czku''qh''vcy kf 0
```

```
Vcy lf 'ku'y g'htqpvkgt''dgw ggp'hckj ''}ko cp; 'cpf 'f kudgrkgh''

}mvht; .''cpf ''gpvgtkpi ''y g'hqtvtguu''qh'hckj ''y kj qwi''

cempqy ngf i o gpv''qh''vcy lf ''ku''pqv'r quukdng<foUc{.''Hvc 'kvj c''

kncøncj ''}Vj gtg''ku''pq''i qf ''dwi'Cncj ; ø'vq''cvvckp''uweeguuö]4; 7_''

cpf '''ôNc 'kvj c 'kncøncj 'ku''O { ''hqtvtguu=''uq.''y j qgxgt''gpvgtu''O { ''

hqtvtguu''ku'uchg''htqo ''O { ''y tcy 06]4; 8_
```

```
Vj ku''uwt cj ''eqpukuwi'qh''y g''r wtguv'o qpqy gkuv'dgrkghu='j gpeg. ''y ku''
uwt cj ''ku''ecmgf ''Uwt cj ''cn/Knj nc ''}Ej cr vgt<''Rwtkv{ ; 0'Vj ku''uwt cj ''
tghwgu''y g''Ej tkuvkcp''dgrkgh''kp''y g''Vtkpkv{.''y g''r qn{ y gkuo ''qh''y g''
Lgy u''cu''y gm''cu''y g''dgrkgh''qh''y g''Ctcdu''f wtkpi ''y g''r tg/Kurco ke''
r gtkqf ''qh'ki pqtcpeg''y j q''tgi ctf gf ''y g''cpi gnu''cu''y g''f cwi j vgtu''
qh'I qf 0
```

```
\label{eq:Vcy_kf} Vcy_kf "o gcpu' y g'r wtkhecvkqp"qh'o kpf "cpf "cevkqp"htqo "cp{" hqto "qh'r qn{ y gkuo "cpf "cuuqekcvkpi "r ctvpgtu' y kj "I qf="pgkj gt" y gqtgvkecn'r qn{ y gkuo "pqt "r tcevkecn'quvgpvcvkqp0"kpuvgcf."dqy " y g'o qvkxg"cpf "y g'cevkqp"kvugn'o wuv'dg"qpn{ 'hqt 'y g'ucmg'qh'' I qf 0 "
```

Vj cv'ku. 'J g'ku'Qpg''cpf 'j cu''pq''uvduvkwvg='J g''j cu''pgkj gt'' uko krkwf g''pqt''gs wcn=''J g''j cu''pgkj gt''rko du''pqt''r ct vu0'

Vj cv'ku. 'J g''ku''y g''Y qtuj kr r gf 'Dgkpi ''}*o c ÷dwf* ; ''y j q''ku''wpls wg'' kp''gxgt{y kpi 0'Vj wu. ''J ku''Guugpeg''ku''dg{qpf ''y g''eqo r tgj gpukqp'' cpf ''wpf gtuvcpf kpi ''qh''o cp0

Vj g'tgcuqp''dgj kpf ''J ku''Qpgpguu''ku''y cv'kh''y gtg''y gtg''cnuq'' cpqy gt''õI qfö.''y ku''õI qfö''y qwrf ''cnuq''j cxg''dggp''uwr r qugf ''vq'' ugpf ''r tqr j gvu''vq''o cpmkpf ''vq''tgeqi pk g''cpf ''qdg{ ''õJ ko ö#

Vj g'tgcuqp''dgj kpf ''J ku''Qpgpguu''ku''y cv'cv''y g''vko g''qh'f cpi gt.''cm' j wo cp''dgkpi u'hqewu''qpn{ ''qp''y g''Qpg''Dgkpi ''cpf ''y gkt''j gctw'' vguvkh{ ''vq''y g''hcev''y cv''qpn{ ''Qpg''Dgkpi ''i kxgu''j qr gu''vq''o cp''co kf '' cm'f khhkewnkgu0

Vj g'tgcuqp''dgj kpf ''J ku''Qpgpguu''ku''y g'j cto qp{ ''dgw ggp''y g'' j gcxgp''cpf ''y g''gcty .''y g''wpkxgtug''cpf ''o cp. ''cpf ''y g''r tgekug'' cpf ''qtf gtn{ ''tgrcvkqpu''co qpi ''cm''etgcwtgu0'Kt''{qw'y qwf ''cun'' y tgg''r ckpvgtu''q'f tcy ''c''ukpi rg''tqquvgt.''hqt''gzco r rg. ''cunkpi ''qpg'' qh''y go ''vq''f tcy ''ku'j gcf.''y g''ugeqpf ''qpg''vq''f tcy ''ku''dqf {.''cpf '' y g''y ktf ''qpg''vq''f tcy ''ku''ckri'qt''hggv.''y gtg''y qwf ''dg''pq''j cto qp{ '' co qpi ''y g''y tgg''f tcy kpi u''y j gp''{qw'r rceg''y go ''vqi gy gt=''qpg'' o ki j v'dg''dki ''y j krg''y g''qy gt''qpg''o ki j v'dg''uo cm=''qpg''o c{ ''j cxg'' c''f ctm'eqrqt''y j krg''y g''qy gt''qpg''o c{ ''j cxg''c''rki j v'eqrqt0' "

[ gu.''y g'j cto qp{"gzkukpi "dgw ggp''y g''uwp.''o qqp."gctyi." y cvgt.''y kpf.''uqkn''o qwpvckp.''f gugtv.''ugc.''cpf ''qy gtu.''qp''qpg'' j cpf.''cpf ''y g''pggf u''qh''o cp.''qp''y g''qy gt.''uki pkhkgu''y cv''y gtg''ku'' qpn{''Qpg''Etgcvqt0'

"

Vj g'j wo cp''dgkpi 'kpj cngu''qz {i gp''cpf ''gzj cngu''ectdqp''f kqzkf g0' Qp''y g''eqpvtct {. ''c''r ncpv''cduqtdu''ectdqp''f kqzkf g''cpf ''tgngcugu'' qz {i gp0'Kp''y ku'y c{.''y g''pggf u''qh''o cp''cpf ''qy gt''hxkpi u'' etgcwxtgu''ctg''o gv.''cpf ''y ku'j cto qp{ ''ku''y g''ugetgv''dgj kpf ''y g''hkpg'' qh''o gp''cpf ''r ncpvu0

Vj g''pggf u''qh''cp''kphcpv'ctg''o gv''y tqwi j ''y g''nqxg''cpf ''chhgevkqp'' qh'kwi'r ctgpvu. ''cpf ''y g''y gctkpguu''qh''y g''f c{ ''ku'tgo qxgf ''y tqwi j '' unggr ''cv''pki j v0'Vj g''y cvgt''qh''y g''g{g'\*vgctu+'j cu''dggp''etgcvgf '' ucnv{ ''cpf ''y g''y cvgt''qh''y g''o qwyj '\*ucnkxc+''htguj 0'Kp''y ku''y c{.''y g'' ucnv{ ''y cvgt ''engcpugu''y g''g{gu''y j krg''y g''htguj ''y cvgt ''r tgr ctgu''y g'' hqqf ''hqt''y g''r tqeguugu''qh''ej gy kpi ''cpf ''f ki guvkqp0' Kpuvgcf "qh'f { kpi .''y g'kphcpv'ku''cwi j v''q''uweni'cpf "gxgp''dghqtg''kv' ku''dqtp.''ku''o km'j cu''dggp''o cf g''cxckrcdrg''kp''y g''dtgcuvu''qh''y g'' o qy gt0'Vj g''hqqf "qh''uqo g''dktfu''ku''nqecvgf "crqpi ''y g''vggy ''qh'' y j crgu''kp''y g''ugc0'Cpf ''gxgt{fc{.''cpko cni''ctg''ucvkuhcevqtkn{" r tqxkf gf ''y kj ''hqqf 0

"

"

```
[ gu.''y g''utwi i ng''qh''y g''hqnqy gtu''qh''twj ''y tqwi j qw''j kuvqt { " j cu''dggp''hqt''y g''ucng''qh'j qkuvlpi ''y g''dcppgt''qh''cy kf 0 "
```

### õCmcj wau/uco cf ö'}Cmcj 'ku'tj g'Cm/go dt cekpi ;

õ *co cf* ö'o gcpu'ko r gpgvtcdng. 'kpf guvt wevkdng'cpf 'wpej cpi gcdng0 "

J g'ku" *co cf* 0'Uq. 'J g'ku''pqv'o cvgtkcn'qt "eqtr qtgcn'dgecwug''cm' eqtr qtgcn'y kpi u''gzr gtkgpeg"ej cpi g''cpf 'f guvt wevkqp''y kyi ''y g'' r cuuci g''qh'vko g0'Vj wu. 'J g'j cu''pq''dqf { ''y cv''ecp''dg''uggp''d{ ''y g'' g{ gu''qt''uwej ''cp''cwtcevkxg''hqteg''y cv.''y qwi j ''wpuggp.''j cu'' eqtr qtgcnkv{0'

```
J g'ku" co cf. ''y g'Ko r gpgvtcdng''Hqteg''y j qug''y kni'r gtxcf gu''cpf "
r gpgvtcvgu''cmi'y kpi u0""'
```

J g'ku" *co cf*.''y g'Kpf guvtwevkdng.''y g'J qpqtcdng'htqo ''y j qo ''cm' j qpqtu''eqo g''cpf ''y j cvgxgt''j qpqt''cpf ''r qy gt''cp{qpg''j cu'' go cpcvgu'htqo ''J ko 0J g''ku''pqv'kp''pggf ''qh''cp{dqf { ''qt''cp{y kpi '' dwi''gxgt{ y kpi ''ku''kp''pggf ''qh''J ko 0

```
J g'ku'' co cf.''y g'Cduqnwg''Rgthgev'Dgkpi.''pc{''y g'Cduqnwg''
Cm′r gthgev'Dgkpi 'y j q''r quuguugu''cm'gzegngpegu''cv'y g''cr gz ''qh''
y gkt ''r gthgevkqp0'Kp''qtf gt ''vq''cvckp''r gthgevkqp.''cm''dgkpi u''ctg''kp''
pggf ''qh'J ku'i tceg.''dw'J g''ku''cpf ''y km'pqv'dg''kp''pggf ''qh''cp{''
dgkpi 0J ku'Eqo o cpf ''ku''cdqxg''cm''qy gt ''eqo o cpf u''cpf ''J ku''
Y km'ku''cdqxg''cm''qy gt ''y km0J g''ku''kp''pggf ''qh''pgky gt ''urggr ''pqt''
cuukucpeg''cpf ''r ctvpgtu''kp''f qkpi ''J ku''y qtm0'
```

J g'ku" *co cf*."cpf 'kp"c"pwuj gm'J g'ku'y g'P ggf nguu'I qf 'y j q'ku" cny c{u"pggf gf "d{"cm0"""

"

"

#### õNco '{ cnlf 'y c'hco '{ wncf ö'}J g'þglsj gt 'dgi cv'þqt 'y cu'' dgi qwgp;

J g'ku'ý g'Etgcvqt''qh'cm'dgkpi u'cpf 'ku'pqv'ý g''qpg'y j q'i cxg'' dktý 'vq'ý go 0J ku'y qtm'ku'pqv'tgr tqf vevkqp''uvej ''cu'' õtgr tqf vekpi ''J ko ugn'ö0'Kv'ku'kpuvgcf ''dtkpi kpi ''uqo gyj kpi ''kpvq'' dgkpi ''htqo ''pqp/dgkpi ''qt''pqyj kpi 0'

Kp''y g''ecug''qh''y g''o qy gt''y j q''i kxgu''dkty ''vq''c''ej kf .''y g''kphcpv'' dgnqpi u''vq''j gt''i gpwu''cpf ''ku''nkmg''j gt.''KQg0'c''j wo cp0'Dw''y ky '' tgur gev''vq''I qf .''kv'ku''ko r quukdng''hqt''cp''gs wcn''cpf ''uko krct''dgkpi '' vq''dg''dgi qwgp''d{ ''J ko ''qt''hqt''J ko ''vq''j cxg''dggp''dgi qwgp<'' õP qyj kpi 'ku''nkmg''J ko (b)]4; :\_\_

Vj ku'ugpvgpeg'ku''ci ckpuv''y g''dgrlgh''qh''y g''Ej tkuvkcpu''y j q'' dgrlgxg''kp''+Kuc'\*\*&+''cu''y g''uqp''qh'I qf .''cpf ''vgcv'j ko ''hmg'I qf 0' Kp''y g''uco g''xgkp.''y ku''xgtug''pgi cvgu''y g''dgrlgh''qh''y g''r qn{ y gkuvu'' y j q''ko ci kpgf ''y cv'y g''cpi gnu'y gtg''y g''f cwi j vgtu''qh'I qf ''d{ '' uc{kpi <~~I qf 'j cu''pgxgt''dgi qwgp''c''ej krf .''y j gy gt ''c''i ktrl'qt''c'' dq{#~~O

P qyj kpi 'ku'\q''dg''dgi qwgp''wpnguu''yj cv''yj g''qpg''y j q''dgi qv'ku'' r tggo kpgpv''cpf ''uwr gtkqt''\q''yj g''dgi qwgp''qpg. ''pqv'\q''o gpvkqp''yj g'' hcev''yj cv''yj g''qpg''y j q''dgi qv''gzkuvgf ''r tkqt''\q''yj g''dgi qwgp''qpg# ''

J ku'gzkusgpeg'ku'pqv'tkng''y g''ur tqwkpi ''qh''y g''ttwkv'htqo ''y g'' hnqy gt='y g''tgg'htqo ''y g''uggf=''y g''y cvgt''htqo ''y g''enqwf='y g'' htg''htqo ''y g'y qqf 0'Kv'ku'pqv'tkng''y g''go gti gpeg''qh'y qtf u''htqo '' y g''o qwj=''qt''y g''uetkr v'htqo ''y g''r gp0'Kv'ku''pqv'tkng''y g''go kuulqp'' qh'uegpv'htqo ''y g''hnqy gt.''qt''\cuvg''htqo ''hqqf 0'Kv'ku''pqv'tkng''y g'' hncuj kpi ''qh''cp''kf gc''htqo ''y g''o kpf.''qt''kpwkskqp''htqo ''y g'' gctv0' ''

Ki'ku'pqv'nkng''y g''cr r gctcpeg''qh'j gcv'htqo ''htg''qt''eqnf 'htqo " upqy 0J g''gzknu''dwi'ku''uko krct''vq''pqy kpi ''cpf ''pq''qpg0J g''ku'' pgkj gt''kp''cp{ y kpi ''pqt''ku''cp{ y kpi ''kp''J ko 0J ku''tgrcvkqpuj kr " y kj ''y kpi u''ku''pqv'nkng''y cv''qh''c''r ctgpv'vq''j ku''ej kf 0'Ki'ku''tcy gt'' y g''tgrcvkqpuj kr ''qh''y g''Etgcvqt''}*nj cn*ks; ''y kj ''y g''etgcwtg'' }*o cnj nws*; 0''

### õY c'hco '{ cmwp'hcj w'hwhwy cp'cj cf ö'}Pqt'j cu'J g'cp{ '' gs wcŋ

J g'j cu''pq''gs wcn'kp''dgkpi .''r gthgevkqp''cpf ''cevkqp0J g''ku''Qpg''cpf '' pq''qpg''ku''uko krct''vq''J ko 0J g''ku''y g''Qpg''cpf ''Qpn{ ''cpf ''J g'j cu'' pgkj gt''ur qwug''pqt''qhhur tkpi #'J g'j cu''pq''gs wcn'vq''dg''J ku'' cuukuvcpv''cpf ''r ctvpgt0

J qy "eqwrf "o cp"f ctg"vq"tgi ctf "J ku"etgcwrtg"cu"J ku"r ctvpgt"cpf " eqo o kv"vj ku"i tkgxqwu"kpgs wkv{ "ci ckpuv'J ko A

### õRqn(yj gkuo 'ku'kpfggf'c'i tgcv'kplwukeg0j]4;;\_

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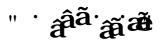
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Q'r tc{kpi ''qpg#'F q''pqv'eqpukf gt''qý gtu''cu'J ku'r ctvpgtu''cpf '' cuuqekcvgu'lp''ý g'hcxqtu''ý cv'J g''dguvqy u''wr qp''{qw.''pqt''cwtkdwg'' vq''qý gt''ý cp''J ko ''ý g''ý kpi u''{qw'f q0'Y j {''f q''{qw''y kpm'qh'' cwtcevkpi ''ý g''cwgpvkqp''qh''y qug''y j q''ctg''hkng''{qwô y gcm'cpf '' pggf {A'Vt{''vq''y kp''y g'hcxqt''qh'I qf ''kpuvgcf ''y j q''j cu''pq''gs vcn'' y gcmpguu''cpf ''pggf 0

 $Cv'y g''gpf''qh'y g''uwt cj.'y g''uj cm'vcmg''c''ewtuqt {''i ncpeg''cv''ku'' uwdnko g''eqpvgpv<$ 



Vj cv'ku. ''J g''ku''Qpg''kp''Guugpeg''cu''y gm'cu''kp''Cwtkdwgu0'Uq. ''J g''ku'' cnuq''Qpg''kp''y qt yj kpguu''vq''dg''yj g''Y qt uj kr r gf ''Dgkpi ''}*o c ÷dwf*; 0

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Vj cv'ku.'J g'ku'htgg'htqo 'y cpv'cpf 'cm'y kpi u'ctg'kp'pggf 'qh'J ko ." cpf 'J g'ku'Cnqpg'kp'dgkpi 'htgg'htqo 'y cpv0

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Vj cv'ku. 'J g'f qgu'pqv'tgr tqf weg"cp"gs wcn'hqt 'J ko 'vq'j cxg'c'r ggt" cpf 'c'o cvej 0



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Vj cv'ku. 'J g'ku'y g'Hktuv'cpf 'y g'Ncuv0J g'ku'pqv'etgcvgf 'vq'j cxg''
go gti gf 'htqo ''uqo gy kpi 0'
```

### "ãâBã ã ã ãããã

Vj cv'ku. "Jg'j cu'pgkj gt "gs wcn'pqt "ur qwug="pgkj gt "rggt "pqt" r ct vpgt0

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Vj ku''uwt cj ''pgi cvgu''cm''rc { gtu''qh'r qn{ yj gkuo .''uwr gturkskqpu.''
f gnwukqpu.''cpf ''f gxkcpv''dgnghu''htqo ''yj g''Ucetgf ''Guugpeg''qh'I qf.''
y j krg''r tgugpvlpi ''vq''wu''r wtg''cpf ''r tkurkpg''vcy kf 0'
''
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Ht uv'ingr <'Uc{.'õJ g'ku'o {'I qf 0J g'ku'dg{qpf 'y g''
eqo r tgj gpukqp''qh'y g'j wo cp''o kpf ''cpf ''kpvgmgev.''cpf ''J g''ku''
j kf gp''cpf ''cdugpv'htqo ''cp{''xkukqp0ö''
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Cv'ý ku'uvci g. "cm'ý g''cwgpvkqp''ku''hqewugf "qp'ý g''Guugpeg''qh'I qf " cpf "pqv'qp''J ku''C wtkdwgu0'Vj g''Guugpeg''cnqpg''ku''gpqwi j ''hqt''J ku'' dgkpi ''ý g''Dgnqxgf ''o c dwd; "cpf ''ý g''Y qtuj kr r gf ''Dgkpi '' o c -dwf; 0'J cf tcv'-Crk'*-x+'uc{u<
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Vj cv'ku. 'r gthgev'ukpegtkx{ 'ku'vj cv'{qw'y qtuj kr ''J ko 'y kj qwv' vcmkpi 'kpvq''ceeqwpv'J ku'C wtkdwguQ<u>523\_'</u>Vj cv'ku. ''{qw'y qtuj kr '' I qf 'hqt''y g''ucmg''qh'J ko ugth''cpf ''pqv''qp''ceeqwpv''qh''y g'hcxqtu'' y cv'j cxg''dggp''i kxgp''vq''{qw0

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Ugeqpf 'iwgr <'õJ g''ku'Cmcj.''ý g''Y qtuj kr r gf 'Dgkpi ''y j q''
r quuguugu''cm''r gthgevlqp0ö''
Kp''ý ku''uvci g.''ý g''Guugpeg''cpf ''C wtkdwgu''ctg''eqpulf gtgf ''
vqi gyj gt0õCmcj ö''ku''y g''Guugpeg''ý cv''r quuguugu''cm''ý g''i qqf ''
C wtkdwgu.''cpf ''ý wu''J g''ku'y qtyj { ''qh'y qtuj kr ''cpf ''f gxqvkqp0'Cu''
y g''S wtøcp''uvcvgu.
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### i âi ã ã để á <sup>â·ä</sup> ấ

õVq'Cmcj 'dgnppi 'tjg'Dguv'Pco gu.'tuq'tuvrrntæcvg'J ko 'd{'' vjgo (b]524\_ Mpqy kpi 'I qf ''y tqwi j ''y g'Cwtkdwgu''ku''y g''ugeqpf ''uvgr ''kp'' y j kej ''õ*Cmc j* ö''ku''y g''eqo r tgj gpukxg''y qtf ''hqt''cm''y qug'' Cwtkdwgu0

Eqpulf gtkpi 'I qf ''d{ ''y c{ ''qh''y g''Cwtkdwgu'ku'c''o gcpu''y cv'ku'' o cplhguvgf ''kp''y g''uwr r nlecvlqpu. ''gur gelcm{ ''kp''y g'' $Fw \neq \phi''$ Lcy uj ct ''Mcdkt ''y j gtg''y g''cfftguu''I qf ''y tqwi j ''c''y qwucpf '' Cwtkdwgu0

Vj kf 'lwgr <'õJ g'ku'Qpg''cpf 'Wpks wg'kp'Qpgpguu&'' Kp''y ku'uxci g.''*xcy kf* ''ku'f kuewuugf ô *vcy kf* ''kp'Guugpeg''cpf '' Cwtkdwgu0'J ku'Guugpeg''ku'Qpg''cpf ''J ku'Cwtkdwgu''ctg''Wpks wg'' cpf ''Wpr ctcmgngf 0'Vj g''gzkuvgpeg''qh'J ku'Guugpeg''cpf ''J ku'' Cwtkdwgu''ctg''qpg''cpf ''y g''uco g=''pqv''y cv'J ku'Cwtkdwgu''ctg''c'' ugr ctcvg''gzkuvgpeg''cff gf ''\q''J ku'Guugpeg0'

J g"ku"Qpg"y j q"j cu"pq"ugeqpf "qt"y ktf 0"Vj g"pwo gtkech"õqpgö" }y c kf ; "ku"f kthgtgpv"htqo "qpgpguu"cu"c"s werksevkxg"eqpegr v" }c cf ; 0"Vj g"S wtøep"uc{u<"õI qf "ku"c cf "epf "pqv"y c kf 0ö J g"ku"õQpgö"\*qpvqrqi kecm{+"epf "pqv"õqpgö"\*pwo gtkecm{+"y j kej " o c{ "j cxg"c"ugeqpf "qt"c"y ktf "qh"ku"nkpf 0'

### Hqwt vj 'ingr <õI qf 'ku'htgg'htqo 'y cpv0ö

Kp'ý ku'uci g.'ý g'htggf qo 'htqo 'ý cpv'y j kej 'ku'ý g'r kxqv'qh'ý g'' F kxkpg''Guugpeg''cpf 'C wtkdwgu'ku''cp''ko r qt vcpv'f guetkr vkqp''qh'' I qf 0Kp''cf f kkqp.''kv'ku''pqv'lwuv'kp''ý g''nqto ''qh''c''r tgf kecvg.'' uvcvkpi <õ*Cncj w'' co cf* ö0Kv'ku'tcy gt''kp''ý g''nqto ''qh''c''hkzgf '' f guetkr vkqp''qh''õ*Cncj* ö''cpf ''dgecwug''qh''y ku.''ý g''y qtf ''õ*Cncj* ö''ku'' j gtgd{ ''tgr gcvgf <õ*Cncj w'' co cf* ö0

J g'ku'Qpg''dwi'pqv'kp''pggf0'Qyj gt''yj cp''J ko ''ctg''o cp{.''dwi'cm'' yj g''pggfu''cpf ''cwgpvkqp''qh''cm''yj qug''y j q''ctg''pggf{''ctg''i gctgf '' vqy ctf ''yj cv''Kpf gr gpf gpv''Qpg# ''

### Hkhyj 'twgr <

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### 'nÂĨĨĨĨĨĨĨ

Vj ku'uvci g. 'ceeqtf kpi ''vq''y g''vtcf kkqpu. ''ku''y g''kpvgtr tgvcvkqp''qh'' ''< Y]gbcv'kp''pggf ''qh''dgi gwkpi ''c''ej krf 0'P gkj gt ''ku''J g''kp''05 ö pggf ''qh''c''hcyj gt ''cpf ''c''o qyj gt ''vq''dgi gv'J ko .''pqt''qh''c''ur qwug.'' cuuqekcvg''cpf ''r ctvpgt ''vq''cuukuv'J ko ''kp''J ku''y qtm0 KtiJ g'y gtg"gxgt"dqtp.''y gp"J g'y qwrf "pqv'dg''y g"Hktuv."cpf 'kh'J g" gxgt"i cxg"dktyj.''y gp"J g'y qwrf "pqv'dg"gvgtpcn'dgecwug"J g" y qwrf "dg"r tqpg''vq"f ko kpkuj "cpf "f y kpf rg0KtiJ g"gxgt"j cf "cp" gs wcn'cpf "c"r ggt.''y gp"J g'y qwrf "pqv'dg"wptkxcrngf 0J g"ku'htgg" cpf "gzgo r v'htqo "cm'y gug''y kpi u0'

"

### âããã âäââã

õEngct 'ku'Cmcj 'qh'cp{'r ctvpgtu'ij cv'ij g{'b c{'cuetkdg'}vq'' J ko ;#ö]525\_"

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]4; 4\_"Vj g"ttcf kkqpu"tgi ctf kpi "vj g"o gtku"cpf "ko r qtvcpeg"qh" y ku'uwt cj ''j cxg''dggp''tgeqtf gf ''kp''Vchukt 'Dwt j cp0'Kp''y ku'' xqnxo g. 'y g'uj cm'qpn{ 's wqvg'uqo g''qh'yj gug''tcf kkqpu0 ]4; 5\_"Kplkrk'y g'uetkr wtg'tgxgcrgf 'vg'Rtqr j gv':Kuc'\*Lguwu+'\* $\div c$ +'kp'' ku'qtki kpcn'hqto 0'}VtcpuQ ]4; 6\_'\ cdwt < y g'uetkr wtg'tgxgcngf ''vq''Rtqr j gv'F cy wf ''\*F cxkf +'' \*÷c+'kp'kw'qtki kpcn'hqto 0'}VtcpuQ " ]4; 7\_"Dk ct "cn'Cpy ct."xqn03."r 04240 ]4; 8\_"Dk ct "cn/Cpy ct."xqn05."r 0350 ]4; 9\_'Vchukt 'Pwt ''cyj /Vj cscnc{p.'xqn07.'r 092; 0 ]4;:\_"Untcj "cuj /Uj wtc"64<330 ]4; ; \_"Unt cj 'Nws o cp"53⊲350 ]522\_'Vchukt 'Pwt ''cyj /Vj cscnc{p.''xqn07.''r 09360 <u>]523\_</u>"*Pclj "cn/Dcnci j cj*."õMj wdcj "cv/Vcy kf ö0 ]<u>524\_</u>"Uwtcj "cn'C≠ch'9⊰:20 ]525\_''Unt cj "c / wt '74<650

### Dqy kpi 'f qy p'}t wmw∺

Dqy kpi 'f qy p''}*t wmw*; 'ku'cp''guugpvkcn'r kmct''qh'r tc{gt0' Rgthqto kpi 'kv'kp''cp''gzeguukxg''qt''kpcf gs wcvg''o cppgt.''y j gy gt'' kpvgpvkqpcn'qt''wpkpvgpvkqpcn'tgpf gtu''y g'r tc{gt'kpxcnkf0'

Vj g'y qtf 'õ*t cmæj* ö''}ekteng; 'y j kej 'ku'wugf 'kp''eqwpvkpi 'y g'' e{engu''qh'r tc{gt''ku''f gtkxgf 'htqo 'y g''y qtf 'õ*t wmw-*ö0'

Vj g''tkdg"qh''Vj cskh'tgs wguvgf ''y cv''y g''Rtqr j gv'\*U+'gzewug''y go " htqo ''r gthqto kpi '*'t wnw:*"cpf ''r tquvtcvkqp"}*uwlwf* ; 'kp''r tc{gt." uc{kpi <õDgpf kpi 'f qy p'hqt''wu'ku''c''uj co g0ö''Vj ku''xgtug''y cu'' tgxgcngf <

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õY j gp 'lj g{ 'ltg''qıf. 'Dqy 'f qy p.ø'lj g{ 'f q'pqv'dqy '' f qy p#ö]526\_

Qyj gtu'dqy "cpf 'uj qy 'tgxgtgpeg'kp'htqpv'qh'j wo cp'dgkpi u'nkng" yj go ugnxgu. 'dw'{qw'j cxg'\q'dqy 'f qy p"cpf 'uj qy 'tgxgtgpeg" uqngn{ '\q"{qwt 'Etgcvqt0

Y j gp"'y g"xgtug." $\tilde{o}$  Uq"egngdt cvg"'y g"P co g"qh"{qwt "Nqtf."y g" Cn/uwrt go g. $\tilde{o}$ ]527\_'y cu"tgxgcngf."'y g"Rtqr j gv"\*U+'qtf gtgf <"  $\tilde{o}$ Uj qy "tgxgtgpeg"'q"I qf "y j krg"{qw"ctg"kp"twnw:"cpf "tgekkg"'y ku" f j knt "}tgo go dtcpeg"qt"i mtkhecvkqp; <"

### '<sup>ä</sup> äää á<sup>e</sup>aáa æ

Und  $cpc'tcddk c \phi n' + c ko ''y c''dk cof kj 0$ õI nqt { ''dg''vq''o { ''Nqtf.''yj g''I tgcv.''cpf ''r tckug''dgnpi u''vq'' J ko  $06]528_$ 

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Y g'tgcf 'kp'ý g''tcf kkqpu<ö*Twnw*: "ku'ý g''uki p''qh''eqwtvgu{ " }cfcd; 'y j krg'ý g''*uwlwf* 'ku'ý g''u{o dqn'qh''pgctpguu''}swtd; ''vq'' I qf 0'Qpeg''{qw'f q''pqv'r gthqto ''ý g''i guvwtg''qh''eqwtvgu{ " r tqr gtn{.''{qw'ecppqv'dg''tgcf { ''hqt''y g''uci g''qh''pgctpguu00<u>]529</u>\_"

### " · ÂâBäa ââââââ â

õY j gtgcv'j g'\*Fcxkf+'r ngcfgf'y kj 'j ku'Nqtf'hqt'hqti kxgpguu.'' cpf'hgndfqyp'dqy kpi'cpf'tgrgpvgf0b]52:\_\_\_

### Vj g'ghgevu'qh't www:

Ko co "cn'Dcs kt"\* $\div$ +"uc{u<" $\delta$ Cp{qpg"y j q"r gthgevn{"r gthqto u"j ku" twnw:"r gthgevn{"y km'dg"uchg"htqo "y g"j qttqt"qh"y g"i tcxg0<u>j52;</u>"

Vj g''o qtg''y g''dqy ''f qy p''kp''j wo ktkv{ ''q''I qf .''y g''o qtg''y g''uj cm'' j cxg''y g''r qy gt''q''eqphtqpv''y g''Ucvcp''cpf ''ucvcpke''qpgu0Ko co '' c / cf ks'\* $\dot{c}$ +''uc{u< $\delta$ Nqpi ''t wmw:''cpf ''uwlwf ''o cmgu''Klnku''cpi t{.'' uc{kpi .''+Y qg''q'o g#'Y kj ''uwej ''s wcrkv{ ''qh''ugtxkwvf g.''y g''r gqr ng''

uc { kpi . " $\div$ Y qg'vq'o g#'Y ky 'uwej 's workv{ 'qh'ugt x kwwf g. 'y g'r y km'pq'nqpi gt 'qdg{ 'o g0 $\overline{)}$ 532\_

I qf ''uc{u''q''y g''cpi gnt<õUgg''o {''ugtxcpvu.''j qy ''y g{''gzr tguu'' tgxgtgpeg''vq''O g''cpf ''y g{ ''npggn'f qy p''kp''htqpv''qh''O g0'Kuj cm'' cnuq''gzcn''y go ''cpf ''i kxg''y go ''j qpqt''cpf ''i nqt{@<u>1533\_</u>

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### Vj g'gvls wgwg'qh'r gt hqt o kpi 't wmw÷

Y g'tgcf 'kp''y g''tcf kkqpu''y cv'f wtkpi '*twnw*: 'y g''dnguugf ''dceni'qh'' y g'O guugpi gt''qh''Cncj '\*U+''y qwrf ''dg''uq''dgpv''cpf ''uq''uvtcki j v' y cv'kh''c''f tqr ''qh''y cvgt''y cu''r qwtgf ''qp''j ku''dcem''kv''y qwrf ''tgo ckp'' kp''y g''egpvgt''qh''j ku''dcem''cpf ''pqv'hcm''q''gkyj gt''ukf g@]535\_'''

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KV ku'ý wu'gplqkpgf <õF wtkpi "t wnw:"uvtgvej "{qwt 'pgeni'cu'kh'vq'uc{<
:Kj cxg''ceegr vgf 'ý g'hcký "gxgp'kh'K'co ''dgj gcf gf ''kp''J ku''
y c{0<u>536_''</u>
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Co qpi ''y g''qy gt ''gvks wgwgu''qh'r gthqto kpi ''*t wmw*-:'ku''y cv'o gp'' j cxg''vq'r qukskqp''y gkt ''gnlqy u''qwy ctf n{ ''hng''y g''y kpi u''qh'c''dktf '' cpf ''pqv''q''cwcej ''y go ''vq''y gkt ''hncpm0'Y g''j cxg''vq''r neg''y g'' r cro u''qh''qut''j cpf u''qp''qwt ''npggu''cpf ''ur tgcf ''qwt ''hkpi gtu0'Vj g'' hggv'o wuv'dg''crki pgf . ''pgky gt ''qpg''qh''y go ''uj qwf ''dg''r negf '' hqty ctf ''pqt''dcemy ctf 0'Dgw ggp''y g''hggv''y gtg''o wuv''dg''y g'' f kucpeg''qh''cdqwi'qpg''j cpf ''ur cp0'

F wtkpi "*twnw*:"qpg"o wuv'nqnn"dgw ggp"vj g'hggv"cpf "chvgt"vj g" tgeksch"qh"vj g"*f j knt* "hqt"*twnw*::"'y j krg"uvkm"kp"vj g"r qukkqp"qh"*twnw*:" qpg"o wuv'kpxqng"dnguukpi u"} cncy cj; "wr qp"O w co o cf "cpf"j ku" r tqi gp{"\*:x+0Qh"eqwtug."tgr gvkskqp"qh"vj g"*f j knt* "hqt"*twnw*:"cv" ngcuv'vj tkeg"j cu"dggp"tgeqo o gpf gf "cpf "ku"r tghgttgf Q537\_"

### Vjg't wmw÷'qh'tjg'tickpw/qh'Iqf

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Ko co 'c / cf ks '*\divc +'uc {u<to J cf tcv'\divCrk'*\divc +'y qwrf 'o cmg'j ku''
twmw\div'uq 'mpi 'y cv'j ku''ngi u'y qwrf 'r gtur ktg0b]538_
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Ko co ":Cnk''*:c+"j ko ugh''y wu''uc{u'kp''y g''hktuv'ugto qp''qh''Pcj l''

cn'Dcnci j cj <õI qf "j cu''cpi gnu''y j q''ctg''cny c{u'kp''y g''uvcvg''qh''

twnw:"cpf ''y km'pgxgt''tkug''wr "}sk(co; 0o)
```

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Qh'eqwtug. '\ktgf pguu'cpf 'j wpi gt 'ctg''pqv'cr r necdng '\q' 'y g''
cpi gnt0'Uq. 'y qug'y j q''ctg''i pquvleu'cpf ''nxgtu''qh'I qf ''cpf ''y j q''
r gthqto ''uwej ''nqpi ''twnw÷''r gtuwcf g''y g''cpi gnt'\q''r tckug'I qf 0'
Vj ku''ku''y g''uvcyg''qh''y g''uckpwi'qh'I qf 0'[ gv.'y j cv''cdqwi'wuA''Vj g''
Rtqr j gv'*U+'y cu''qpeg''ukwlpi ''kp''y g''o qus wg''y j gp''c''egtvckp''o cp''
gpvgtgf ''cpf ''uvqqf ''kp''r tc{gt.''dwi'j ku'twnw÷''cpf ''uwlwf ''y gtg''
f ghgevkxg''cpf 'f qpg''xgt{ ''s wlemn{0'Vj g''Rtqr j gv'*U+'uckf <õJ g''ku''
nkng''c''etqy ''y cv''y qwf ''r geni'cpf ''i q0'Kti'j g''f gr ctwi'htqo ''y ku''
y qtnf 'y ky ''uwej ''c''uvcvg''qh''r tc{gt.''j g''y kni'pqv'j cxg''f kgf ''wpf gt''
o { ''tgnki kqp0b]539_
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### Vjg'jkmqt{'qh'imlwf

Chvgt "etgcvkpi "Cfco "\*Cfco +'\*-œ+."I qf "qtfgtgf" 'y g"cpi gnu'vq" r tquvtcvg"dghqtg"j ko 0'Cm"qh"y go "r tquvtcvgf" gzegr v"Klnku0<u>53: "</u> Qp"ceeqwpv'qh'y ku'f ghkcpeg."I qf "gzr gngf" j ko "htqo "J ku" Rtgugpeg0

Vj g'S wtøcp'o gpvkqpu'vj ku'gr kuqf g'tgr gcvgf n{ 'cpf 'y g'npqy 'vj cv' tgr gvkvkqpu'kp'vj g'S wtøcp''ctg''pqv'y ky qwv'y kuf qo 0KV'ku''cu'kh'kv'' y cpwl'q''uc{<foQ''o cp''dghqtg''y j qo ''cml'y g''cpi gnu''r tquvtcvgf #' Y j {'f q''{qw''pqv'r tquvtcvg''dghqtg'I qf .''y g''EtgcvqtA'Q''o cp#' Kdnku''y cu''gzr gngf ''hqt''tghwukpi ''vq''r tquvtcvg''dghqtg''{qw0'Qpeg'' {qw''tghwug''vq''r tquvtcvg''dghqtg''I qf .''y j cv'ecp''{qw''gzr gevA

õKinku'f kf "pqv'r tquvtcvg"dghqtg"{qw0J g'y cu'uc{kpi <-Kco " uwr gtkqt'vq"o cp0ø'Ecp"{qw'chhqtf 'vq'uc{<-Kco "uwr gtkqt'vq" I qf øA'[ qwô y j q'y gtg"qpeg"pqp/gzkuvgpv'cpf "qpeg"{qw'eco g" kpvq'ý g'y qtnf.'y gcnpguu'cpf 'ko r qvgpeg"gpxgnqr gf "{qwt"gpvktg" dgkpi."cpf 'kp'ý g"gpf "{qw'uj cm'cnuq'j wo dn{ 'f gr ctv'htqo 'ý ku'' y qtnf ô j qy "eqwnf "{qw'f ctg'vq''dg''r tqwf 'kp'htqpv'qh'ý g'Etgcvqt" qh'ý g'wpkxgtugA

Cv'cp{ 'tcvg.''y g'htuv'eqo o cpf o gpv'qh'I qf 'chvgt''y g'etgcvkqp''qh'' o cp'y cu''y g''eqo o cpf ''qh''r tquvtcvkqp0'

### Vjg'korqt wpeg'qh'iwlwf

"

```
"
~-----Uuluf "ku''y g'dguv'r qukkqp''qh'o cp''kp''y g'r tgugpeg''qh''
I qf 0
"
```

~"""Uwlwf 'ku'y g'dguv'y c{ '\q'cwckp'pgctpguu'\q'I qf <*`oDwv'' rtquatcvg'cpf 'ftcy 'pgct'}wq'Cmcj ;#o*]53;\_\_ ~"""C'uki p'qh'y g''nq{cn'Eqo r cpkqpu''qh'y g''Rtqrj gv'\*U+'y cu'' y cv'y g''ghhgev''qh'r tquvtcvkqp''eqwrf ''dg''uggp''qp''y gkt''

hqtgj gcf u<br/>tõVj gkt 'b ct mku'}xkukdng; 'dp 'ij gkt 'hc egu. 'ht qo ''<br/> y g'ghigev'dhi't quat c kap 05]542\_

~"""*Uwlwf* "o gcpu'j cto qp{ 'y kj 'y g'cpi gnu'qh'I qf 0J cf tcv' :Crk'\*:*c*+'uc{u<õVj gtg'ku'pq''nc{gt''qh'y g'j gcxgpu'y kj qw'' j cxkpi 'y gtgkp''c''i tqwr ''qh'cpi gnu'kp''y g''uvcvg''qh'*uwlwf* 06]545\_"

~-----*Uulwf* 'ku'y g'j ki j guv'f gi tgg'qh'qdgf kgpeg''cpf 'ugtxkwf g'' dgecwug''o cp''r ncegu''qp''y g''gcty ''y g''nqhkguv'r ctv'qh'j ku'' dqf {.'KQg0'j ku'hqtgj gcf.'cpf "gzrtguugu'j wo krkx{ "cpf " ko rqvgpeg'kp"vj g'rtgugpeg"qh'vj g'Qo pkrqvgpv'Cwj qtkx{0' "

~~~~ P ki j vn{ ''r tquvtcvkqp''ku''qpg''qh''y g''uki pu''qh''y g''tki j vgqwu'' ugtxcpwu''qh'I qf <*õVj g'lugt xcp vu''qh'l'j g'Cn1/dgpghkegp v'ct gí ''* y qug'y j q'lar gpf 'l'j g'p ki j v'y kj 'l'j gkt 'Nqtf.'r tquvtcvkpi '' cpf 'locpf kpi '}kp 'y qt uj kr ;00]54;\_

 $\label{eq:constraint} \begin{array}{l} \sim \mbox{"MWf} 'ku''y g''cfqtpo gpv'qh'r tc{gt0'Uq.'r gthqto 'kv'' r tqr gtn{0'Ko co ''c / cf ks ''* <math display="inline">\div r$ +''uc{u
 "`` f gpgxgt''{qw''r gthqto ''y g''t wnw: "cpf ''uwlwf ''y gm''cu''I qf ''y km''i kxg''' ugxgpv{ ''vo gu''y g''tgy ctf ''qt''gxgp''o qtg00]552_'''

 $\sim = U d w f'' ku' y g'' uqwteg''qh''r t kf g''qh'I qf'' y g''cpi gnu.''cpf'' y wu.''kv''gpvckuu'J ku''hcxqt''uwej ''y cv''kp''gxgt {''uwlwf.''qpg''qh'' o cpøu''ukpu''ku''hqti kxgp''cpf''c''i tgcv'tgy ctf''ku''tgeqtf gf''hqt'' j ko Q553_''J cftcv''<math>:$ CnK'*::c+''uckf <'õKa'o cp''qpn{''mpgy''y j cv'' o gte {''gpxgnqr gu''j ko ''cv''y g''ko g''qh''uwlwf.''j g'y qwrf''pgxgt''' tckug''wr''j ku''j gcf''htqo''y cv''uvcvg@j554_

~ """ Uulwf "gz kpi vkuj gu'y g'ur ktkv'qh'gi qkuo "cpf 'r tkf g."cpf "

f grlxgtu'o cp'htqo ''xcplx{Q555_ ~----Vj g''Rtqr j gv'*U+'wugf ''q''uc{<õQp''y g''F c{''qh'' T guwttgevkqp.''K'y knilkf gpvkh{''o {''wo o cj ''d{''y g''o ctni'qh'' r tquvtcvkqp''y cv'y g{''j cxg''qp''y gkt'hqtgj gcf u@j556_''Vj cv'' r qtvkqp''qh'y g''gcty ''qp''y j kej ''r tquvtcvkqp''y cu'o cf g''y kni' vguvkh{''vq''y g''f gxqvkqp''qh'o cp''qp''y g''F c{''qh'' T guwttgevkqp]557_''cpf ''gxgp''kp''y g''y qtrf .''c''tcf kcpv'r qkpv'' eqppgev'lkv'vq''y g''j gcxgpuQ558_ ~----Cu'lkp''y g''ecug''qh'*'t wnw*÷''nqpi ''r tquvtcvkqpu'tguvnv'lkp''y g''

r gto cpgpeg"qh'hcxqtu"cpf "npi gxkx{ 0559_

"

"

~-----*Umlwf* "ku''uq''ko r qt vcpv''y cv'I qf "eqo o cpf u''c''i tgcv'' Rtqr j gv'*U+''uwej ''cu''Kitcj ko ''*Cdtcj co +'*- \dot{c} +.''vq''engcpug'' O culkf ''cn' ctco ''hqt''y qug''y j q''r gthqto ''y g'' ektewo co dwrcykqp''} cy ch ''qh''y g''*Mc*-*dcj*.''*twnw*-''cpf'' *uwlwf* Q55:__

Vjg'y kuf qo'dgj kpf'uwlwf

Vj g'Eqo o cpf gt''qh''y g'Hcký hwl'-Crk'* $\div c$ +'y cu'cungf "eqpegtpkpi " y g'y kuf qo ''dgj kpf ''*unlwf* 0'Vj g'Ko co ''* $\div c$ +''uckf <õVj g''hktuv'*unlwf* '' o gcpu''y cv'Ky cu'f wuv'kp''y g''dgi kppkpi .''cpf ''cu''Ktckug''o { ''j gcf '' htqo ''*unlwf* .''kv''o gcpu''y cv'K'eco g''q''y g''y qtrf ''htqo ''y g''f wuv0' Vj g''ugeqpf ''*unlwf* ''o gcpu''y cv'K'y km'ci ckp'tgwtp''q''y g''uqkn''cpf '' cu''Ktckug''o { ''j gcf ''htqo ''*unlwf* .''kv''o gcpu''y cv''qp''y g''F c{ ''qh'' T guwttgevkqp''Ky km'tkug''wr ''htqo ''y g''i tcxg''cpf ''dg'' uwo o qpgf @j55; __''''''

Ko co "c / cf ks "*: x+"uc{u<õUkpeg"*uuluf* "ku"hqt"I qf."kv"o wuv" y gtghqtg"pqv"dg"f qpg"qp"cp{y kpi "y cv"ku"gcvgp"qt"y qtp"y j kej " f tcy u"y g"cvgpvkqp"qh"o cvgtkcnkuvu0"*Uuluf* "o wuv"tgo kpf "o cp"qh" I qf."pqv"y g"uvqo cej."enqy kpi "cpf "o cvgtkcn'y kpi u00<u>562</u>"

Y g'tgcf 'kp''y g'' *cf kj* ''y cv'y g'tgcuqp''dgj kpf ''y g''r tquvtcvkqp'hqt" hqti gyhwpguu''}*uwlwf ''ucj y k*j ''hqt''wpkpvgpvkqpcn'gzeguu''cpf '' f ghlekgpekgu'*kp''y g''pwo dgt''qh''cp{ ''guugpvkcn'r kmct''qh''y g'' r tc{gt+''qt''o kur megf ''wwgtcpeg.''uvcpf kpi ''cpf ''ukwkpi 'ku''y cv'Kdnku'' f kuvtcevgf ''{qwt''cwgpvkqp''cpf ''etgcvgf ''f kuqtf gt ''kp''{qwt''r tc{gt0' ''

Vj gtghqtg."chvgt"r tc{gt"{qw'r gthqto "'y q"r tquvtcvkqpu''uq"cu''vq" twd"j ku"pqug"kp"'y g"i tqwpf "cpf "'q"kphqto "j ko "'y cv'gxgt{"vko g"j g" etgcvgu"f kuqtf gt."{qw'y km'ci ckp"r gthqto "r tquvtcvkqp"dghqtg" I qf Q<u>563</u>_

c tcv'-Crk'*:c+'uckf <õVj g"gzvgtpcn'cr r gctcpeg"} $cj k_i$; "qh'ų g" uwlwf "ku'ų g"r ncekpi "qh'ų g"hqtgj gcf "qp'ų g"i tqwpf "y kj " ukpegtkv{ "cpf "j wo krkv{."dwv'ku"guqvgtke"guugpeg"} $dc k_p$; "ku'ų g" f gvcej o gpv'qh'ų g"j gctv'htqo "cm'r gtkuj cdng'ų kpi u."cwcej o gpv" qh'ų g"j gctv'vq'ų g"gvgtpcn'cdqf g."cpf "tgrkgh'htqo "r tkf g." hcpcvkekuo "cpf "cm'y qtrf n{"cwcej o gpvuQ<u>564</u>_

Vjg'gvks wgvvg'qhirgt hqt okpi'uwlwf

Y g''uj cm'r qkpv''qwv''uqo g''qh''y g''twrgu''qh''gvks wgwg''qh''r gthqto kpi " uwlwf ''cu''tgeqtf gf ''kp''y g''vtcf kvkqpu<<u>1565</u>_

Chygt"*t wnw*:"lip"r tgr ctcylqp"hqt"yj g"r gthqto cpeg"qh"*uwlwf*."yj g" j cpf u"o wuv'dg"r negf "hktuv"qp"yj g"i tqwpf "dghqtg"yj g"npggu0" "

F wtkpi ''y g''*uwlwf* ''y g'j cpf u'o wuv'dg'r megf 'r ctemgn'q''y g''getu0' Hqt 'o gp. 'y g''gndqy u'o wuv'pqv'dg'r megf ''qp''y g'i tqwpf ''cpf '' o wuv'tgo ckp''qr gp''qp''dqy ''ukf gu'nkng''y kpi u0'P qv'qpn{ ''y g'' hqtgj gef ''dwi'enq''y g''pqug''o wuv'dg'r megf ''qp''y g'i tqwpf 0'Kp'' dgw ggp''y g''y q''r tquvtevkqpu. ''y g''r gtuqp''r te{kpi ''o wuv'r meg'' j ku'nghv'nqv'wpf gt''y g''tki j v'nqv'kp''uwej ''c ''o cppgt''y ev'y g'' y gki j v'qh'j ku''dqf { ''ku''qp''y g''ghv'ukf g''dgeewug''y g''ghv'ku''y g'' u{o dqn'qh'henugj qqf ''y j krg''y g''tki j v'ku''y g''u{o dqn'qh''twyi 0' "

F wtkpi "*uwlwf* "ý g'r gtuqp"r tc{kpi ."cr ctv'htqo "ý g"qdrki cvqt{" tgeksen 'j cu'vq"ugpf "*crcy cj* ."uwr r rkecvg"cpf "y ggr "qw*'qh'hget"qh" I qf 0'Y j krg'tkukpi "htqo "*uwlwf* ."j g"j cu'vq"tgeksg"*vc mdkt* "cpf " f wtkpi "ý g"tgeksen'qh"*vc mdkt* ."j g"j cu'vq"tckug"dqý "j ku'j cpf u0

Vjg'iqkiqh'Mctdcrcø

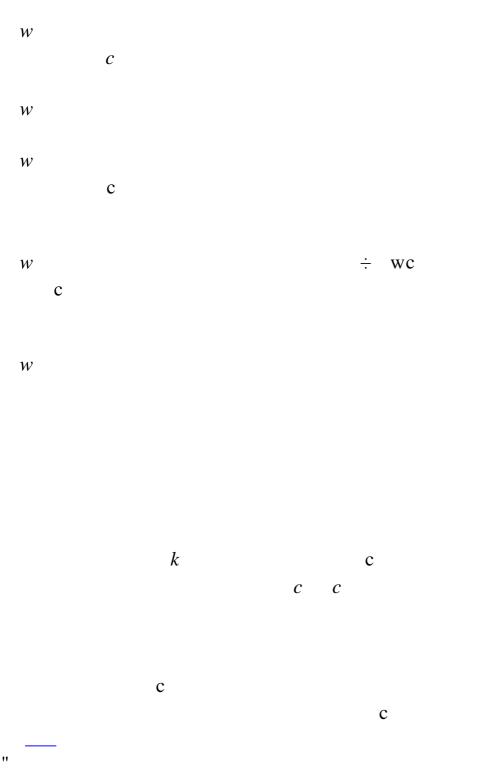
Cnj qwi j "uwlwf "qp"cp{"i tqwpf."pc{"qp"cp{"engcp"uvqpg"cpf" y qqf."ku"r gto kuukdng"cpf "eqttgev."y g"uqkd"}wt dcj; "qh"Ko co " cn' wuc{p'j cu"i tgcv'o gtku0KK'ku"uckf "y cv"Ko co "c / c

С

w c

С

"



Rt quvt c vkqp'qh'vj c pmu'}uwl wf 'lij wnt ;

"

"

Rtquvtcvkqp''ku''pqv'gzenwukxg''vq''r tc{gt0'Kp''hcev.''kv'ku''cnuq'' f kuewuugf ''kp''qvj gt''ctgcu''cpf ''kv'ku''gxgp''qdrki cvqt{''uqo gvko gu'' uwej ''cu''chvgt''y g''tgekscn''qh''qpg''qh''y g''xgtugu''hqt''y j kej '' r tquvtcvkqp''ku''qdrki cvqt{0' Qpg''qh''y g''y c{u''qh''gzr tguukpi ''i tcvkwvfg''ku''y g''r tquvtcvkqp''qh'' y cpmu''}*uwlwf ''uj wnt*; ''y j kej ''ku''j ki j n{''tgeqo o gpf gf 0'

Unlwf 'lıj wnt 'o gcpu'i kxkpi 'y cpmı'hqt 'y g'kpeguucpv'f kxkpg'' dnguukpi u'y j kej 'j cxg''dggp''uj qy gtgf 'wr qp''wu''cpf ''qwt 'hco kn{0' Ko co "c / cf ks "* \div +"uc {u<orbit{``6Y j gpgxgt"} qw'tgo go dgt"c"dnguukpi ." r nceg"{qwt"hqtgj gcf "qp"'y g''i tqwpf "cu'c"'qngp"qh''y cpmu"cpf "kh" {qw'ugg''y cv''y g''r gqr ng"ctg"nqmkpi "cv"{qw."cu"c"tgur gev'hqt"'y cv" hcxqt."dgpf "c"nkwrg"dk00]567_

"

"

Vj g''J qn{ ''Rtqr j gv'*U+'y cu''uggp''f kuo qwpvkpi ''c''eco gn0J g'' r gthqto gf ''r tquvtcvkqp''hkxg''vko gu''cpf ''uckf <'õLkdtcøkn''eco g''f qy p'' vq''o g''cpf ''i cxg''o g''hkxg''v{ r gu''qh''kpuki j v.''cpf ''hqt''gxgt { ''kpuki j v''K' o cf g''*uclf cj* 0<u>j</u> 568_''

c tcv'-Cık'* \div +'uqo gvko gu'y qwrf 'hckpv'y j krg'r gthqto kpi ''*uwlwf '' uj wnt*]569_'cpf 'kv'j cu'dggp'pcttcvgf 'htqo ''y g'Ko co ''qh''y g''Vko g'' * \div +''y cv'y g''o quv'pgeguuct{"qh''y g''tgeqo o gpf gf ''cevu'' }*uwppcj*; 'ku''*uwlwf ''uj wnt*Q56:_''

F wtkpi ''y g''*uwlwf ''uj wnt* ''cp{'*f j knt* ''qt''uwr r hecvkqp''ku'' r gto kuukdng. ''dwi'y g''tgekxcn'qh'õ*uj wnt cp ''hmc j* ö''}yi cpmi''q'' Cmcj ; ''cpf ''õ*cn' co f whrc j* ö''}cmi'r tckug''dgnqpi u''q''Cmcj ; .''cpf '' tgo go dtcpeg''qh'y g''i tgcv''dnguukpi ''qh'y g''i wctf kcpuj kr '' }*y krc{cj* ; ''qh'y g''*Cj n'cn/Dc{v'*÷c*+''ctg''tgeqo o gpf gf 0.56; _''I qf '' uckf <'õVj g''tgy ctf ''qh'y g''r gtuqp''y j q''r gthqto u''*uwlwf ''uj wnt* ''ku'' y cv'Kcnuq''i kxg''y cpmi''q''j ko @]572_

Cnj qwi j ''y gtg''ku''c''ur gekhke''vko g''cpf ''r nceg'hqt''*uwlwf ''uj wmt*.''y g'' dguv''vko g''pgxgt y gnguu''ku''chwgt''gxgt { ''r tc { gt''cu''c''uwr r ngo gpv''vq'' y g''r tc { gt0

Vj g'ðngudpi u'qh'uwl wf 'tij wnt

```
O cp{ "dnguukpi u"cpf "dgpghku"qh"uwlwf "uj wnt "j cxg"dggp"
o gpvkqpgf "kp"yj g"vtcf kvkqpu0'Y g"uj cm"dt kghn{ "uvcvg"uqo g"qh"
yj go "dgnqy <
```

```
Kl'ý gtg'ku'f ghlekgpe{ 'kp'r tc{gt'y j kej 'ku'pqv'tgo qxgf 'ý tqwi j "
ý g'tgeqo o gpf gf 'cpf ''qr vkqpcn'r tc{gtu."uwlwf ''uj wnt ''y kn''
eqo r gpucvg'hqt'k0'Kl'gpvcku'ý g'r ngcuwtg''qh'I qf ''cpf ''tgo qxgu''
ý g'f kuvcpeg''dgw ggp''o cp''cpf ''I qf 0'Uwr r nkecvkqp''f wtkpi ''y g''
uwlwf ''uj wnt ''ku''tgeqo o gpf gf ''cpf ''j cu''y g''tgy ctf ''qh''yp'' cncy cw''
cpf ''y g''tgo qxcn'qh''yp''o clqt''ukpu0
```

Eqpegtpkpi 'y g'uvcvkqp'cpf 'uvcvwu'qh'uwlwf 'uj wnt.'kv'ku'gpqwi j "

vq'uc{''y cv'I qf''y qwf ''dg'r tqwf ''qh''kv'cpf ''gzr tguu''y ku'r tkf g''vq'' y g''cpi gnu0573

VjgʻrtquvtcvkqpuʻqhʻvjgʻuckpvuʻqhʻIqf

"

"

Ko co "c / cf ks "* \div c +"uc {u<"õVj g"tgcuqp"dgj kpf "Kitcj ko øu"* \div c +" cwckpo gpv"qh"yj g"uvcvkqp"qh"Ht kgpf "qh"Cmcj "}*nj crknvncj k*j "y cu" j ku"o cp{ "r tquvtcvkqpu"qp"yj g"i tqwpf Q_{574} "

Qp''y g''pki j v'y j gp'' c tcv': $Crk'^* \div c$ +''y cu''uwr r qugf ''q''urggr ''qp'' y g''dgf ''qh''y g''J qn{ ''Rtqr j gv'*U+'kp''qtf gt ''q''r tqvgev'j ko ''htqo '' y g''uy qtf u''qh'j ku''gpgo kgu.''j g''cungf ''y g''O guugpi gt ''qh''Crncj '' *U+<'õKb'Kf q''uq.''y kn''{ qwt ''http''dg''uchg''htqo ''f cpi gt Aö''Y j gp''y g'' Rtqr j gv'*U+'i cxg''cp''chhto cvkxg''tgr n{.'' c tcv': $Crk'^* \div c$ +'uo krgf '' cpf ''r gthqto gf ''*unlwf ''uj wnt* ''cu''c''i guwtg''qh''i tcvkwf g''hqt''y ku'' qr r qtwpkv{0<u>575</u>''

Y j gp''y g''j gcf ''qh'Cdw'Lcj n''ngcf gt''qh''y g''r qn{ y gkuu. 'y cu'' dtqwi j v''y g''Rtqr j gv'*U+.''j g''r gthqto gf ''*uwlwf ''uj wnt* Q576_''

Ko co "cu/Ucllcf "*- \dot{x} +"y qwrf "r gthqto "*uwlwf "uj wnt* "cu"cp" gzr tguukqp"qh'yi cpmuO'Y j gpgxgt"c"ecreo kv{ "y cu'vcmgp"cy c{" htqo "j ko "qt"j g"kpkkcvgf "yi g"tgeqpektkcvkqp"dgw ggp"w q" O wurko u."j g"y qwrf "o cmg"*uwlwf "uj wnt* 0J ku'*uwlwf* "y cu'uq"rqpi " y cv'j g"y qwrf "r gtur ktg"r tqhwugn{0,577_

Uqog'r qkpw

30'Vj g''r rceg''qh''r tquvtcvkqp''ku''uq''ko r qtvcpv'kp''y cv'y g''y wu'tgcf" kp''y g''tcf kvkqpu<'õChvgt''r tc{gt.''qwej ''y g''r rceg''qh''r tquvtcvkqp" y kj "{qwt'j cpf ''cpf ''cr r n{ ''kv''q''{qwt''rceg''cpf ''dqf { ''kp''qtf gt''vq'' tgo ckp''uchg'htqo ''f kugcugu.''r rci wgu''cpf ''wpr rgcucpv'' y kpi u00<u>]578_'</u>'

```
40 Vt { "pqv'vq'hqti gv'uwlwf "lij wmt "chvgt "y g"o ci j t kd"}f wum " r tc { gt "cu''y g''uwr r necvkqp"chvgt "kv'ku''ceegr vgf 0<u>579</u>"
```

Ko co "c / cf ks "*: +'uckf <õCp{qpg'y j q'r gthqto u'r tquvtcvkqp" dgw ggp''y g"*cf j cp*"cpf "*ks co cj* "cpf ''y wu'uc{u'y j krg''kp" r tquvtcvkqp. "õKf q'r tquvtcvg"dghqtg'[qw'j wo dn{.''uwdo kuukxgn{" cpf "o ggm{.ö'I qf ''y km'r nceg''nqxg''hqt''j ko "kp''y g''j gctwu'qh'y g" dgnkgxgtu''cpf ''hgct''qh'j ko ''kp''y g''j gctwu''qh'y g''j {r qetkxgu''

```
}o wpcHskp;0<u>57:</u>
```

50 Rtquvtcvkqp'ku'uqrgn{ 'hqt'I qf ''cpf 'kv'ku'pqv'r gto kuukdrg''q'' r tquvtcvg''dghqtg''cp{qpg''kpenvf kpi ''y g''Rtqr j gv'qh''Crncj '' *U+.]57; _'ngv''cmpgg''kp''htqpv'qh''y g'' tcxgu''qh''y g''Ko co u'* $\div c$ +''cpf '' y gkt ''f guegpf cpvu''}ko co / cf gj u; .''kp''htqpv'qh''y j kej ''uqo g'' r gqr ng''f q''r tquvtcvg''cu''cp''gzr tguukqp''qh''tgur gev0

Y j gp'c'i tqwr ''qh'O wurko u'o ki tcvgf ''q'Cd{uukpkc.''y g'lphkf gnu'' qh'O geec''f kur cvej gf 'c''f gngi cvkqp''q''Mkpi ''P gi wu''kp''qtf gt 'hqt'' j ko ''pqv''q''ceeqo o qf cvg''y g''O wurko u'kp''j ku''eqwpvt{''cpf ''y wu'' gzr gn'y go 0'Kp''ceeqtf cpeg''y kj ''y g''ewuvqo u''cv'y cv'vko g.''y g'' tgr tgugpvcvkxg''qh'y g''S wtc{uj ''r tquvtcvgf ''dghqtg''y g''P gi wu'' *mkpi ''qh''Cd{uukpkc+0'Qp''y g''eqpvtct{.''y g''O wurko '' tgr tgugpvcvkxg.''Lc-hct.''y g''dtqy gt''qh'' c tcv'+Crk'* \div +.''f kf ''pqv'' r tquvtcvg.''uc{kpi <'öY g''f q''pqv'r tquvtcvg''q''cp{dqf{''gzegr v'' I qf @j582_''

Vj g''r tquvtcvkqp''qh'' c tcv''[c:s wd'*Leeqd+'*: \dot{c} +'cpf 'j ku'uqpu'vq''' c tcv'[wuwh'*Lqugr j +'*: \dot{c} +'y cu''cnıq ''pqv'hqt''[wuwh'dwi'hqt''I qf '' cu''c''vqngp''qh'i tcvkwf g''hqt''j g''dnguukpi ''qh'tgwpkqp''y kj ''[wuwh'' $\tilde{o}Cpf$ 'ij g{ 'hgnlf qy p 'r t quut c vg''lghqt g'j ko $@]583_{}$ ''

..

]<u>526_</u>"Uwtcj ''cn'O wtucncv'99≪6: 0'Ugg''Dk ct ''cn'Cpy ct.''xqn0': 7.''r 0' 3220]<u>527_</u>"Uwtcj ''cn'Y csk÷cj ''78≪960

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528 "Lco k+"cn/C cf kj."xqn04."r 0; 440
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<u>]529_</u>"Dk ct "cn'Cpy ct."xqn0: 7."r 032: 0
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]<u>52: _</u>"*Uwt cj* " *cf* "5: **4**60

<u>]52; _'</u>*Y cuc økı'cuj /Uj k÷cj*.''xqr0/6.''r 0'; 4: 0

]<u>532_'</u>*Y cuc dvlcuj /Uj k÷cj*.''xqn0'6.''r 0'; 4: 0

]<u>533_</u>"*Lco k*:"*cn*′*C cf kj*."xqn07."r 04250

]<u>534_</u>"*Y cuc økilcuj / Uj k÷cj*.'xqn06.'r 0; 4:0

]<u>535_</u>"*Y cuc økilcuj / Uj k÷cj*."xqn06."r 0'; 640

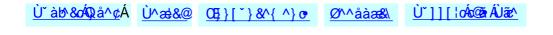
<u>]536_</u>"*Y cuc drl'cuj / Uj k÷c j*."xqr06."r 0'; 640

]537_'Cm'y gug''gvks wgwgu''ctg''tgeqtf gf ''kp''Y cuc dol'cuj /Uj k $\pm j$."

xqn0/6.'rr0'; 42/; 650

]538_"Dk ct "cn/Cpy ct."xqn0": 7."r 03320 $539'Y cuc \phi kr/cuj / Uj k \div cj$. 'xqr0'6. 'r 0'; 440 153: _'Qh'eqwtug."uwlwf "ku'uqngn{ "hqt'I qf "cpf "o cp"y cu'o gtgn{" cuuwo gf "yj g"s kdrcj "qh"yj g"cpi gn0]53; _"Unt cj "cn' -Cncs"; 8⊲; 0 542 "Unt cj "cn/Hc vj "6: 4; 0]<u>543_</u>"*Untcj* "*cp*/*Pc* n'38⊲6; 0]544_"Untcj "ct/Tc ocp"77<80]545_"*Pcj l"cn/Dcnci j cj*."Ugto qp"; 30 **]546** "Unt cj "cn/Kpucp'98∢480]547_"Untcj "Ch'-Kotcp"5<650]548_"Untcj "cn/ cll"44<990]549_"Uwt cj "cn'Hcv "6: ⊲; 0]54: _"Untcj "cu/Uclfcj "54-370]54; _"Untcj "cn/Hutscp"47&5/860]552_'Dk ct ''cn/Cpy ct.''xqn0': 7.''r 035; 0]553_'Lco k:"cn/C cf kj .''xqn07.''r 06880]554_'Lco k:"cn/C cf kj ."xqn07."r 06: 40]555_''Lco k:"cn/C cf kj ."xqn07."r 06750 <u>]556_</u>"*O wupcf 'C o cf 'kdp" cpdcn*"xqr0%."r 03:;0]557_'Lco k:"cn/C cf kj ."xqn07."r 03:;0]558_"O wave f t c nl'c n'Y c uc økn "xqn06."r 06: 70 $559'' Cuc \phi kr cuj / Uj k \neq j .'xqr 0.6.'r 0; 4:0$]55: _"Uwtcj "cn/Dcsctcj "4-347<"õY g"ej cti gf "Cdtcj co "cpf " Kij o c gn"}y kij "ku"wr nggr. "uc { kpi ;. "-Rwt kh{ "O { "J qwug"hqt "\j qug" y j q'i q'ct qwpf 'kx.'hqt 'i qug'y j q'o cmg'ki'c 't git gcv'cpf 'hqt 'i qug'' y j q"dqy "cpf "rtqutcvg0b]55; _'Dk ct ''cn'Cpy ct.''xqn0': 7.''r 035; 0]562_''*Cn/Hcskj*.''xqr03.''r 04: 40]563_"*Cn*/*Y ch*/k."xqn0': ."r 0'; ; 40]564_'Owacftcm'cn'Y cuckn'xqn06.'r 06: 60]565_"Vj gug"tcf kkqpu"j cxg"dggp"tgeqtf gf "kp"Y cuc drd" cuj/Uj k cj.''xqr06.''rr0'; 72/; : 20]566_'Vj g'uwdlgewi'qh'y ku'f kuewuukqp'j cxg'dggp'tgeqtf gf 'kp'y g'' vtcf kkqpu''qh''y g''dqqm''*Mco ki'c*/ \wedge k/ctcv.''Ugevqp'': ; ''qpy ctf 0']567_'Cn/Y c/k.''xqn0': .''r 0': 470 <u>]568_</u>"*Ow cllcj "cn/Dc{ cø*."xqn03."r 05680]569_'Lco k:"cn/C cf kj ."xqn07."r 067; 0]56: _'Lco k:"cn/C cf kj .''xqn07.''r 06750]56; _'Lco k:''cn'C cf kj .''xqn07.''r 0'68; 0]572_"*Cn/Hcskj*."xqr0/3."r 0/5560

[573_'Cn/Hcskj.'xqn03.'r 05530 [574_'Dk ct 'cn/Cpy ct.'xqn0': 7.'r 03850 [575_'Cn/Y clk'xqn0': .'r 0': : 40 [576_'Lco k÷cn/C cf kj.'xqn07.'r 06970 [577_'Dk ct 'cn/Cpy ct.'xqn0': 7.'r 03590 [578_'Uclkpcj 'cn/Dc ct0 [579_'Y cucøkn/cuj /Uj k÷cj.'xqn0'6.'r 0327: 0 [57:_'Y cucøkn/cuj /Uj k÷cj.'xqn0'6.'r 08550 [57:_'Y cucøkn/cuj /Uj k÷cj.'xqn0'6.'r 0'; : 80 [582_'O wupcf 'C o cf 'kdp'' cpdcn'xqn0'3.'r 06830 [583_''Uwtcj '[wuwłi'34-3220]



Ö@**ă**¦**ÁæË∕æ**àã@

õUwdj cp'Cmcj ö'}i mt { 'dg'vq'Cmcj ;

"

Y j kg''kp''t wmw:"cpf ''uwlwf. ''ý g''r gtuqp''r tc { kpi ''i mtkhgu''I qf 0' Y j gp''ý g''xgtug. ''õ Uq''egngdt c vg''ý g''P co g''qh'{ qwt 'Nqtf. ''ý g'' Cm'uwr t go g.ö]584_''y cu''tgxgcngf. ''ý g''Rtqr j gv'*U+'ý wu''uckf <'' õCr r n{ ''ý ku''eqo o cpf ''q''{ qwt ''t wmw:"cpf ''uc{<''

^{'ä} äää a^eaaa a

Und $cpc'tcddk(cont \div ko''yc''dk cofkj0)$

õInqt{"dg"vq"o{"Nqtf."vjg"Itgcv."cpf"rtckug"dgnqpiu"vq"Jko0ö

Cpf ''y j gp''y g''xgtug.''õ[qw'ctg'ncdqtkpi ''qy ctf ''{qwt 'Nqtf.''jg'' O quv'Gz cngf.ö]585_''y cu''tgxgcngf.''j g''*U+''uckf <õCrrn{''y ku'' eqo o cpf ''q''{qwt''uwlwf ''cpf ''uc{<''

'ä ääióæ "aaia æ

Und cpc'tcddk{con/c+rc'yc'dk cofkj0

õInqt{'dg'\q'o{'Nqtf.'\yjg'Gzcnvgf.'cpf'rtckug'dgnqpiu'\q'' Jko@j<u>586</u>

Vjg'üvevlep'qh'veudlj

I mqtkh{kpi "}wudk; "cpf "gzcnkpi "}wp/k{cj; "I qf "ctg"ý g"tqqv" qh"cm"cwy gpvke "Kunco ke"dgnkghu"cpf "ý qwi j vic

 $Vcy \ kf$ "o gcpu"tgi ctf kpi "I qf "cu"htgg"htqo "cp{ "\ckpv"qh" r qn{ y gkuo $< \tilde{o} Engct \ ku$ "Cncj "qh"cp{ "r ct vpgt u" y cv' y g{ "o c{ " cuetkdg"} vq "J ko ;# \tilde{o}]587_

Lwurkeg"} $\div f \eta$ "o gcpu"eqpukf gtkpi 'I qf "cu'htgg"htqo "cp{ 'hqto "qh" kplwurkeg $< \tilde{o} V j g$ { 'uclf." $\div K o c ewncvg$ 'ku"qwt 'Nqtf #'Y g'j cxg" kpf ggf "dggp "y t qpi f qgt u# $\phi \sigma$]588_

Rtqr j gyj qqf "}*pwdwy y cj* ; "cpf "Ko co cvg"}*ko co cj* ; "o gcp" vtgcvkpi "I qf "cu"ko o wpg'htqo "yj g"rcem'qh'yj g"r wtr qug. "yj g" r tqi tco "cpf "y g'o gcpu"f gnkxgtkpi "y g'r gqr ng"htqo "y g'ugc"qh" f guktg"cpf "kpenkpcvkqp<"

" $\stackrel{a}{a}$ ' $\stackrel{a}{a}$ $\stackrel{a}{a}$

õVjg{'fkf'þqv'tgictf'Cmcj'ýkyj'ýg'tgictf'fwg'kq'Jko'ýjgp'' yjg{'luckf.'+Cmcj'jcu'þqv'lgpv'fqyp'cp{yjkpi'kq'cp{'' jwocpø0j<u>589</u>_

Vj g'T gwtp"} $o c \div cf$; 'o gcpu'mpqy kpi 'I qf ''pqv''q''j cxg''o cf g'' etgcvkqp''kp''xckp''cpf ''mpqy kpi ''y cv'y g''gpf ''qh''y g'y qtnf ''ku''pqv'' cppkj krcvkqp<" $\tilde{o}Q'Nqtf$. '[qw'j cxg'pqv'etgcvgf ''j ku''p ''xc lp#'' Ko o cewncvg'ctg'[qw# \tilde{o}]58: _'' $\tilde{o}Fkf$ '{ qw'iwr r qug''y cv'Y g'' etgcvgf '{ qw'cho nguat{.'cpf ''j cv'{ qw''y knlpqv'dg'dtqwi j v'dcem'' wq 'WuA \tilde{o}]58; _''[gu.''I qf ''ku''i wkmguu''qh''y ku''hwkg''cpf ''xckp''cev'' "

I mtkhkecvkqp"qh"I qf "ku"pqv"qpn{ "vj g"hqwpvckpj gcf "qh"Kurco ke" dgnkghu"dwv"cnuq"vj g"uqwteg"qh"gpqto qwu"ur ktkwcn"cpf "o qtcn" gzegngpegu<

Uwd cp'Cncj 'ku''y g''uqwteg''qh''uc'kuhce'kqp"}tkc; 0'Ki'y g''tgi ctf " J ko ''cu'htgg''htqo ''cp{ 'f ghgev.''kv'o gcpu''y cv'y g''ctg''uc'kuhkgf ''y kj " J ku''f getggu''cpf ''uwdo kv''q''y g''y kuf qo ''dgj kpf ''J ku''y km0'

Und cp'Cncj 'ku'y g'hqwpyckpj gcf ''qh''*vcy cmnwi*"}tgrkcpeg''qp" I qf; 0Kt'ku''qpn{ ''nqi kecn'y cv'y g'j cxg''q''twuv'cpf ''tgn{ ''qp''y g'' Qpg'y j q'ku'htgg'htqo ''cp{ ''pggf ''cpf ''ko o wpg'htqo ''cp{ '' y gcnpguu''cpf ''kpcdktkv{ $<\delta K o \ c \ c \ w \ c \ y \ z'' \ g'' \ g'' \ Cnt'uwHtkekgpv@]592_"$

Uvd cp'Cncj 'ku''y g''uqwteg''qh''nqxg''hqt''I qf 0'Vj g'Guugpeg''y cv'ku'' engct''htqo ''cp{ 'f ghgev'cpf ''uj qtveqo kpi ''ku''nqxgf ''d{ ''o cp0

Und cp'Cmcj 'ku''y g''r tgrko kpct { ''r ctv'qh''r tckug''cpf ''gwnqi { ''q'' I qfô r tckug''cpf ''gwnqi { 'hqt''y g''Guugpeg''y cv'ku'htgg''htqo ''hknj '' cpf ''wpr ngcucpypguu0'Vj wu. ''kp''y g'' $Vcudk cv'cn'Ctdc \div cj$.]593_'' õuwd cp''Cmcj ö''eqo gu''hktuv'dghqtg'õcn' cof wrkmcj ö0 ''

Und cp'Cncj 'ku'y g'ng{ 'vq'ucnxcvkqp'htqo 'cm'uwr gtuvkskqpu'cpf '' o cp/o cf g''etggf u *co Engct 'ku'Cncj . 'y g'Nqtf ''qh'y g'Vj tqpg. ''qh'* y j cv'y g{ ''cngi g''}eqpegtpkpi ''J ko j@<u>594</u>_ Rgtj cr u. 'kv'ku'hqt ''y gug'tgcuqpu''y cv'y g''eqo o cpf 'hqt''*wudk* " }i mtkhecvkqp''qh'Cmcj ; 'j cu''dggp''o gpvkqpgf ''o qtg''htgs wgpvn{ " eqo r ctgf ''q''qy gt''*cf j mct* "}hqto u''qh'tgo go dtcpeg''q'I qf ; 0' Vj g''eqo o cpf 'hqt''*wudk* ''j cu''dggp''tgr gcvgf ''38''vo gu=''hqt'' *kuki j hct* ''}cunkpi 'hqti kxgpguu'htqo ''Cmcj ; ''gki j v'vo gu=''hqt''y g'' tgo go dtcpeg''qh''Cmcj ''}*f j knt* ; 'hkxg''vo gu='cpf ''hqt''*wmlkt* ''}vq'' uc{.'õ*Cncj w'cmdct* ö; ''y keg0'Dgukf gu.''y g''eqo o cpf ''hqt''*wudk* ''ku'' o gcpv'hqt''cm''vo gu''cpf ''eqpf kkqpu''uq''y cv'o cp''uj qwf ''cny c{u'' tgo go dgt'I qf ''cpf ''tgi ctf ''J ko ''cu''htgg''htqo ''cp{ ''hqto ''qh'f ghgev'' cpf ''uj qtveqo kpi <

õCpf 'egngdtcvg''y g'+tchug'qh{qwt 'Nqtf 'dghqtg''y g'thuhpi 'qh' y g'iwp 'cpf 'dghqtg''y g'iwpugv. 'cpf 'i nqthh{ 'J ko 'kp'y cvej gu'qh' y g'phi j v'cpf 'cv''y g'fc{øu'gpf ulö]595_

11

"

[gu. "qp"ceeqwpv'qh"o cp¢u"o cp{ "ho kcvkqpu."j g"ecp"pgxgt" eqo r tgj gpf "I qf 0'Uq. "kv"ku"dgwgt "hqt"j ko "vq"cf o kv"j ku"qy p" y gcnpguu"cpf "uc{." δ Cu"[qw"ctg"dg{qpf "y g"ueqr g"qh"y g" kpvgngev"cpf "ko ci kpcvkqp."[qw"ctg"i vknwguu"qh"cpf "cdqxg"y j cv" qy gtu"cuetkdg"vq"[qw"ctg" ko o cewncvg"ku"J g. "cpf 'l tgcvn{" gz.cngf 'cdqxg'y j cv'ij g{'luc{# \ddot{o}]598_""

Qpn{ 'y g'ukpegtg'ugtxcpuu'qh'I qf.'y tqwi j 'f kxkpg'i wkf cpeg'cpf " uweeqt.'ecp'f guetkdg'I qf <'

õEngct 'ku'Cmcj 'qh'y j cvgxgt 'lj g{ 'cmgi g'}cdqwv'J ko ;.ô }cm;'' gz egr v'Cmcj øu'gz envukxg'ligt xcp vulö]599_

Vj g't gy ct f 'hqt '\cudlj

Ko co "c / cf ks "* \div +"pcttcvgu"ý cv"ý g"O guugpi gt "qh"Cmcj "*U+" uckť "ý cv"y j gp"c"ugtxcpv"qh"I qf "wwgtu. "õ*Uwd cp"Cmcj*.ö" y j cvgxgt "ku"wpf gt "ý g"F kxkpg"Vj tqpg"i mtkhkgu"I qf "cmpi "y kj " j ko "cpf "32" vko gu"ý g"tgy ctf "uj cm"dg"i kxgp" vq"j ko 0"Y j gp"j g" tgekgu. "õ*Cn' c* ö"I qf "uj cm"i tcpv"j ko "ý g"dnguukpi u"qh"ý g" y qtnf "vkm"j g"o ggvu"Cmcj "cpf "gpvgtu"kpvq" ý g"dnguukpi u"qh"ý g"

"

"

"

"

Rtcevlecn'scudlj

Ko co 'c / cf ks '* \div +'uckf <'õQpg''qh''y g''o quv'f khkewn'cpf '' ko r qt vcpv''y kpi u''y cv'I qf ''j cu'o cf g'pgeguuct { 'hqt''etgcvkqp''ku'' õcdwpf cpv'tgo go dtcpegö''}*fj knt ''cn/mcyj kt*; 0ö''J g''* \div +''y gp''uckf <' õY j cv'kv'o gcpu''ku''pqv''y g''tgekcn'qh'õ*Uwd cp ''Cncj k'' y cøn' co f wrkncj k'y c 'nc 'krcj c 'kncncj w'Cncj w'cndct* ö''}I nqt { '' dg''vq''Cncj =''r tckug''dg''vq''Cncj =''y gtg''ku''pq''i qf ''dwi'Cncj =''Cncj '' ku''i tgcvgt; ''cnj qwi j ''kv'ku''cnuq''r ctv'qh''y go 0'Y j cv'kv'o gcpu''ku'' \div q'' tgo go dgt''Cncj =''cu''vq''y j cv'ku''rcy hwi'} *cncn* ''cpf ''y j cv'ku'' wpncy hwi'} *ctco*; ø0b]59; _''

Vj cv'ku. '\q''tgo go dgt'I qf 'y j gp''cevkpi ="kh''c''egtvckp''vcum'o gcpu'' qdgf kgpeg''q'J ko. ''kv'j cu''vq''dg''wpf gtvcmgp="kh''kv''gctpu'J ku'' f kur ngcuwtg. ''kv'j cu''vq''dg''cdcpf qpgf 0

T gr gvlsdqp'qh'tc udlj

Uqo gqpg''eco g''q''y g'' qwug''qh''Ko co ''c / cf ks '* \div +0J g''ucy ''y g'' Ko co '* \div +''kp''c''ucvg''qh''*t wmv* \div i mtkh{ kpi ''I qf ''cpf ''tgr gcvkpi ''y g'' *wudk* '82''vko gu0'Y j krg''kp''y g''ucvg''qh''*uwlwf*.''y g''Ko o ''tgr gcvgf '' y g''*wud* ''722''vko guQ<u>5: 2</u>

Vjg'tgrgvkkqp''qh'*vcudk* 'ku'f kuewuugf 'pqv'qpn{ 'kp'rtc{gt'dwi'kp'' yg''

```
k c cj ."cpf "lp"qyj gt "ecugu."yj g" tgr gykylqp"qh"ucudk "j cu"dggp"tgeqo o gpf gf 0'
```

```
Hqt "kpuvcpeg. "kp" ý g"r tc{gt. "cr ctv'htqo "ý g" f j km" kp" twmw."cpf "

uwlwf. "Vcudk cv'cn'Ctdc \neq j "ecp" cnuq" dg" tgr gcvgf "kp" ý g" ý ktf" cpf "

hqwt ý "tcm \neq j u0"Dcugf "qp" dqý "Uvppk" cpf "Uj k\neq j" vtcf kkqpu."

y j cv'ku" o gcpv' d{ 'ý g" dcsk \{cv'c / crk cv'\} õncuvkpi 'tki j vgqwu"
```

f ggf uö;]5: 3_'lp''xgtug''68''qh''*Unt cj ''cn'Mcj h*'ku''y ku''*Vcudk cv''* $cn'Ctdc \div j$ Q5: 4_''Cu''uvcvgf ''d{ ''J cf tcv'' \div Crk'* \div +.''y g''f j knt ''qh'' J cf tcv''Kltcj ko ''* \div +''cv''y g'''ko g''qh''eqput we kpi ''y g''*Mc* \div dcj ''y cu'' õ*Und cp''Cncj k'y cøn' co f wrkncj k'y c''rc''krcj c''kncncj w''Cncj w''* cndctöQ5: 5_

Tgo go dt cpeg'qh'I qf '}f j knt 'Cncj ; 'kp'Knco ke'ewnwtg

Ngv'wu''
ccng''c''dtkgh''mqm''cv''y g''tgo go dtcpeg''qh''I qf ''}
fj knt ''Cncj; ''kp''Knco ke''ewnwtg<

"

"

```
Y j gp''uwtr tkugf "cpf "co c| gf. "qwt 'hckj hwi'cpeguvqtu''y qwf ''uc {< \tilde{o}Ocuj c\phi'Cncj \ddot{o}"} y j cv'Cncj 'j cu''y kngf # "qt"\tilde{o}uwd cp'Cncj \ddot{o}"
}i mt { "dg''vq'Cncj # ='y j gp"gpvgtkpi ''y g''j qwug<\tilde{o}[c''Cncj \ddot{o}"}Q"
Cncj # ='y j gp''ugr ctcvkpi 'htqo "gcej "qy gt<\tilde{o}Mj qf c'' clk \ddot{o}"}o c { "
I qf ''r tqvgev'*{qw## ='y j gp''uvcpf kpi <\tilde{o}[c'':Cnk#\ddot{o}"}Q'::Cn## ='vq"
tgo qxg'hcvki wg''y j krg'y qtnkpi <\tilde{o}Mj qf c''s wy y cv\ddot{o}"}o c { "I qf "
i kxg"{qw'r qy gt# ='kp'tgr n{ ''q''y g''kps wkt { "chvgt ''qpgøu''j gcnj <''
\tilde{o}Cn' co f wrkncj \ddot{o}"}Cm'r tckug''dgrqpi u''vq''Cncj ; ='y j gp''qhtgtkpi "
hqqf <\tilde{o}Dkuo kncj \ddot{o}"}Kp''y g''P co g''qh'Cncj # ='cpf ''cv'y g''gpf ''qh''c"
o gcn''y g{ ''y qwf ''tgekg''cr r tqr tkcvg''r tc{gtu''cpf ''y cpmu''q''I qf 0
"
```

I tcpf o qy gtu'y qwrf 'uvctv'y gkt'uvqt { vgrkpi < õ[gnk'dwf ='{ gnk'' pcdwf ö''} Vj gtg'y cu''qpeg''pqdqf { ''gzegr v'J ko ; 0 ''

KV'ku'enget''y cv''q''hxg''kp''uwej "cp"cvo qur j gtg"cpf ''q''dg'tgetgf 'kp" uwej "cp"gpxktqpo gpv'y qwrf "gpeqwtci g''y g''tgo go dtepeg''qh'' I qf ''y ''hrqy ''kp''y g''j getv'epf ''J ku''P co g''y ''hrqy ''htqo ''y g''y gi' wg'' ev'ep{ ''vo g''epf ''kp''ep{ ''r reeg0''''

Vj g'tcudkj 'qh'qvj gt 'et gc vvt gu

Cm'qh'etgcvkqpô ý g"ugxgp"j gcxgpu"cpf "ý g"gctý "cpf "y j cvgxgt" ý gtg"ku"dgw ggp"ý go ô i mtkhkgu'I qf (<u>15: 6</u>_"Vj g"cpko cm'uwej " cu'ý g"dktf u. "kpcpko cvg"qdlgevu"uwej "cu'ý g"o qwpvckpu.<u>]5: 7_</u>" ý wpf gt"cpf "uvqto <u>15: 8_</u>"f q"uq"cpf "ý cv'vqq"ku"qw"qh" eqpuekqwupguu"cpf "kpuvkpev#"

'व्वव्यक्वं व्यव्यक्व विं व्यवं क्वे विं

$\tilde{o}Gcej'hpqyu'jku'rtc{gt'cpf'inqtkkeckqpb]5:9_$

Vj g''*cudk* ''qh''y g''cpi gnu''ku''uq''r gtxcukxg''y cv''y g''Rtqrj gv'*'U+''

```
uckf \langle \tilde{0}V j gtg'ku''pqv'c''ukpi ng''rc{gt''qh''y g''j gcxgpu''gzegr v''y cv'' y gtgkp''ku''cp''cpi gn'kp''y g''uvcvg''qh''r tc{gt''cpf ''vcudk 0<u>6</u>]5::__'''
```

```
Ko co "c / cf ks "*\div +"uc {u<"õY j gpgxgt" c tcv"F cy wf "*\div +"y qwf" tgcf "ý g"\ cdwt."ý gtg"y cu"pq"o qwpvckp."uvqpg"cpf "dktf "ý cv"f kf " pqv"tgekt"kv"y ký "j ko 0<u>5</u>; ___
```

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Kli{ $qw'eqwrf'ugg'y g''wpuggp. ''vq''{ }qw'y qwrf''dg't gxgcrgf''y g'''uget gv'dgj kpf''gxgt { ''r ct vkerg''qh'y g''y qtrf 0$ $Vj g''xqkeg''qh'y cvgt. ''uqkd'cpf''o wf''ecp''dg'j gctf''d{''y g''i pquvkeu0$ $Crnl'y g''r ct vkergu''qh'y g''y qtrf''uc{''uget gvn{''vq''{ }qw'f wt kpi''y g'f c{''$ $cpf''pki j <math>\times$ õY g''ctg'j gct kpi. ''f kuegt pkpi''cpf''xki krcpv0Y g''ctg''ukrgpv'y kj''' { qw'y g''utcpi gtu00

"

C'i tqwr ''qh''ej ktr kpi ''ur cttqy u''r cuugf ''d{ ''kp''htqpv''qh''Ko co '' cu/Ucllcf ''* \div +0'Vj g''Ko co ''* \div +''wtpgf ''vq''y qug''y j q''y gtg''pgct'' j ko ''cpf ''uckf <'õGxgt{ ''o qtpkpi ''y g''dktf u''i mtkh{ ''Cmcj ''cpf ''r tc{'' hqt''r qy gt''hqt''y g''f c{00]5; 3_

```
Uqo g'r gqr ng'j cxg''uckf 'ý cv'y j cv'ku'o gcpv'd{ ''ý g''v udk ''cpf ''
uwlwf ''qh'qy gt ''etgcwtgu'ku''cmgi qtkecn'cpf ''pqv'tkgtcn')Lwuv'cu'c''
dgcwkhwt'r ckpvkpi ''cpf ''c ''eqmgevkqp''qh'r qgo u'tgur gevkxgn{ ''
vguvkh{ ''vq''y g''gpqto qwu''vcmgpv''qh''y g''r ckpvgt''cpf ''y g''kpdqtp''
f kur qukskqp''qh'y g''r qgv.''y g''o {uvgtkqwu''eqpuvkwwkqp''qh'qy gt''
etgcwtgu'dgctu'y kpguu''q''y g''npqy ngf i g.''r qy gt.''y kuf qo .''cpf ''
r tgekukqp''qh'I qf.''f genctkpi ''J ko ''ko o wpg''htqo ''cp{ ''uqtv'qh''
f ghgev'cpf ''uj qtveqo kpi 0'Vj ku'ku''y g''xgt{ ''o gcpkpi ''qh'y g''vcudk ''
qh''qy gt ''etgcwtgu0
```

```
Vj ku'xkgy 'ku'r wi'hqty ctf 'y j gp. 'kp''y g'hktuv'r meg. 'y g'j cxg'pq"
r tqqh'cpf 'gxkf gpeg''uwduvcpvkcvkpi 'y ku'pqvkqp0'Ugeqpf n{.'y g"
j cxg''vq''tguqtv'vq''cmgi qtkecn'kpvgtr tgvcvkqp''} w øy kq ''cpf ''cpcn{uku''
y j gp''y g''cr r ctgpv'o gcpkpi ''qh''c''y qtf ''r qugu''cp''ko r quukdkrkv{''
```

```
uwej "cu'ý g"xgtug. '\delta Vj g'j cpf' qh'Cncj' ku'c dqxg'ý ght''

j cpf u \ddot{o} ]5; 4_'kp'y j kej 'kv'ku'ko r quukdng'hqt'I qf 'vq'j cxg'c'j cpf''

cpf 'uq'y g'uc{''ý cv'y j cv'ku'o gcpv'd{''õy g'j cpf "qh'Cncj ö'ku''

f kxkpg'r qy gt0J qy gxgt. 'kp''ecug'y j gtg'y g''ecppqv''eqo r tgj gpf''

ý g''o gcpkpi .''y g''j cxg''pq''tki j v'vq''tguqtv'vq''cngi qtkecn''

kpvgtr tgvcvkqp0
```

```
J qy "eqwrf 'y g'tguqtv'vq"cmgi qtkecn'kpvgtr tgvcvkqp'y j gp''y g"
S wtøcp''kugn''uc{u."
```

,,

õVjgtg'ku'pqv'c''y kpi 'dwv'egngdtcvgu'J ku'rtckug.'dwv'{qw'fq'' pqv'wpfgtuvcpf'y gkt'i nqtkkecvkqpöA<u>5;5</u>

J qy "eqwrf 'y g'tguqtv'\q"cmgi qtkecn'kpvgtr tgvcvkqp'y j gp''y g" S wtøcp''f genctgu. "õ*Cpf '{qw'j cxg'pqv'dggp 'i kxgp 'qh'ij g''* mpqy ngf i g'gz egr v'c 'hgy '}qh'{qw;ö]5; 6_A

```
Y g'tgcf 'o cp{ ''ko gu'kp''y g''S wtøcp''y cv''y g''Rtqr j gv'*U+'y j q'' j cu''ceeguu''vq''gvgtpcn'mpqy ngf i g.''uckf < \delta Kf q' p qv' hp qy (b ]5; 7_'' Uq''y j cv'kh'y g''cnuq''uc{.''\delta Y g''f q''pqv''npqy ö''cpf ''\delta Y g''f q''pqv'' wpf gtuvcpf öA
```

Y j cv'ku'kpvgtguvkpi 'ku'vj cv'I qf 'j cu'gzr nkekn{ 'f genetgf 'vq'wu'qwt'' ki pqtcpeg''cpf 'nceni'qh''npqy ngf i g $\langle \tilde{o}Dwv' \{qw'fq'pqv'wpfgtuxcpf'' y gkt'i nqt kkec vkqp 0 \delta]5; 8_'Dwv'y g''r tqwf 'o cp''ku''pqv'tgcf { 'vq'' uc } { <math>\langle \tilde{o}Kfq''pqv'wpfgtuxcpf''y g''ugetgv'qh''etgcvkqp''coqpi'y j kej ''ku'' y g''vcudk ''qh''qvjgt''etgcwtgu0$

```
F qgu''pqv''y g''S wtøcp''ecvgi qtkecm{ ''f kuenqug''y cv''y g''j qqr qg''y cu'' cy ctg''qh''y g''uwp/y qtuj kr r kpi ''r tcevkeg''qh''y g''r gqr ng''qh''Uj gdc'' cpf ''tgr qtvgf ''y g''uco g''vq''J cf tcv''Uwc {o cp''*\div+.''uc{kpi <õVj g'' twgt ''qh''Uj gdc''ku''c''y qo cp''y j q''ku''ukvkpi ''qp''c''rcti g''y tqpg''cpf '' j gt''r gqr ng''ctg''y qtuj kr r kpi ''y g''uwpQ5; 9_''''
```

```
Vj g'j qqr qgøu'mpqy ngf i g''qh''y g''r gewrkctkskgu''qh''y g''
gpxktqpo gpv'cpf ''y g''pco g''qh''y g''ncpf .''cpf ''ku''cdkrks{ ''vq''
f kuskpi vskuj ''y qo cp''htqo ''o cp.''twngt''htqo ''uwdlgev.''r qn{ y gkuo ''
htqo ''o qpqy gkuo .''cpf ''y g''nkng''ctg''cm''uki pu''qh''y g''kpvgnki gpeg''
qh''qy gt''etgcwstguO'
```

F qgu''pqv'y g'S wt@p''uc{''y cv'qpg''qh'y g''cpw''uckf ''q''y g''qy gtu." õGpvgt '{qwt 'f y gnlpi u 'lguv'Uqnqo qp 'cpf 'j ku'j quvu'lj qwnf '' vt co r ng'qp '{qw'y j kg''y g{ 'ctg''wpcy ctgöA]5; :____

Ko"y gug"xgtugu. "wpf gtuvcpf kpi "y g"o qxgo gpv"qh"j wo cp"dgkpi u." y gkt "pco gu"*Uqnqo qp+."y gkt "qeewr cvkqp"*o krkct {+."y gkt" kpcvgpvlqp"vq"y j gtg"y g{ "uvgr."cpf "y g"cpvøu"eqpegtp"hqt"y g" qy gt "cpvu"ctg"co qpi "y g"kuuvgu"y cv"o cngu"wu"cy ctg"qh"y g" ecr cekv{ "cpf "r qy gt "qh"f kuegtpo gpv"qh"qy gt "etgcwrtgu0 P qy. "kh"y g"ceegr v"y g"gzkuvgpeg"qh"kpuvkpev"cu"y g"j cxg"vq" ceegr v"y g"vgzv"qh"y g"S wtøcp."y gp"y gtg"ku"pq"o qtg"pggf "vq" lwuvkh{ "cpf "cpcn{| g"y g"vcudk "qh"qy gt "etgcwrtgu0'

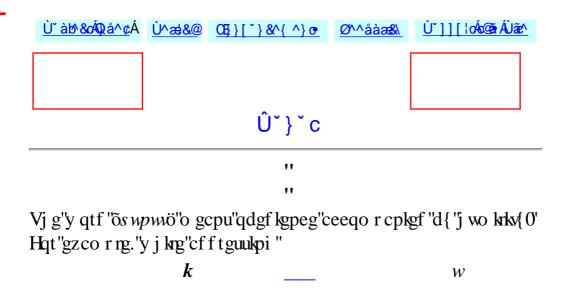
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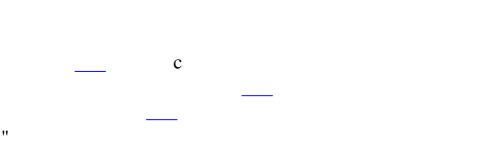
]584_"Untcj "cn/Y csk÷cj "78<960]585_"Uut cj "cn'C→c": 9<30 **<u>586</u>** *Vchukt "cn/Ok/cp.* xqr03; ."r 03820 587"Unt cj "c / w]<u>588_</u>"Uut cj "cn'S cnco '8: ⊲; 0 $589''Uwtcj''cn'Cp \div co''8 < 30$]58: _"Untcj "Cnl'-Ko tcp"5⊲3; 30]58; _''Untcj ''cn'Owo kpwp''45<3370 <u>]592_''Unt cj ''[wpwu''32<8: 0</u>]593_'Vcudk cv'cn/Ctdc+cj <'nkgtcm{.''y g'hqwt''vcudk u='kv'tghgtu''y y g't gekcn'qh'õUnd cp'Cncj k'y cøn cof wrkncj k'y c'hc'krj c" kncncj w'Cncj w'cndctö"}I nqt{"dg'\q'Cncj ="rtckug"dg'\q'Cncj =" y gtg'ku'pq'i qf 'dw'Cmcj ='Cmcj 'ku'i tgcvgt; 0'} VtcpuQ]594_"Uwtcj "cn/Cpdk{cø'43440 **]**595 "Untcj " c "J c "42⊲3520 **]**596_"*Uwtcj* "*cp*/*Pc t* ''332⊲3.''50]597_"Untcj "c / c c]<u>598_</u>"Unt cj "cn Kut cø"*qt "Dcpk Kut cøn+"39<650 **]599_"**Uwt cj "c / c c $59: _'Y cuc \phi kr/cuj / Uj k \div cj .''xqr09.''r 03: 90$ **]59;** _''*Cn/Mc lk*.''xqr0'4.''r 0': 20]5: 2_''*Cn*/*Y c*/*k*.''xqr0'4.''r 0'3290]5:3_"Uwtcj "cn/Mcj h3: 68<õY gcnj 'cpf 'bj hftgp 'ctg'cp'' cf qtpo gpv'qh'ij g'hlig'qh'ij g'y qtıf.'dwv'h ukpi 'thi j vgqwu'' fggfu'ctg'dgwgt 'y kj '{ qwt 'Nqtf 'kp 'tgy ctf 'cpf 'dgwgt 'kp 'j qrg0b

]5: 4_"*Vchukt "cn/Ok/cp*."xqr035."r 07620]5: 5_"Y cuc økilcuj /Uj k÷cj."xqn06."r 034290]5: 6_"Unt cj "cn/Lwo \div j '84 \triangleleft \lt δ Y j cvgxgt 'y gt g'ku'kp 'y g'' j gcxgpu'i nyt kkgu'Cmcj 'cpf 'y j cvgxgt 'y gtg'ku'kp 'y g'gct y .'y g'' Uqxgt gki p. 'ij g'Cm/j qnf. 'ij g'Cm/o ki j vf. 'ij g'Cm/y kug0b 5:7 "Unt cj "cn/Cpdk/co/43; $\langle \tilde{o}Cpf'Yg'fhrqugf'yg''$ o qwpvckpu'cpf'y g'dktfu'kq'i rqtkhf'}J ko ;'y ky 'Fcxkf.'cpf'Y g'' j cxg'dggp '\j g'f qgt '}qh'iwej '\j kpi u;0b]5:8_"Uwt cj "ct/Tc f "35 <5 <õ Vj g'Vj wpf gt 'egngdt c vgu'J ku'' rtckug0b]5: 9_"Uwt cj "cp/Pwt "46<630]5::_'Vchukt "cn/S wt wdk."xqn0:."r 077: 30]5:; _'Vchukt 'Pwt ''cyj /Vj cscnc{p.'xqn0'5.'r 0'6660]5; 2_'Vchukt 'Pwt ''cyj /Vj cscnc{p.'xqn0'5.'r 038: 0]5; 3_'Vchukt "cn/Ok/cp."xqr035."r 04280]5; 4_"Uwt cj "cn/Hcv "6: 320]5; 5_"Unt cj "cn/Kut cø"*qt "Dcpk/Kut cøn+"39<660 **5;** 6_"Unt cj "cn Kut c\$"*qt "Dcpk Kut c\$m+"39<70]5; 7_"Vj ku'ugpvgpeg'y cu'tgr gcvgf "hqwt 'vko gu'kp''y g'S wtøcp" co qpi 'y j kej 'ku'kp'' $U_{t}cj$ 'cn'Cpdk(co'433; 0]<u>5; 8_</u>"Uwt cj "cn/Kut cø^{**}qt"Dcpk'Kut cøkn+'39<660

]5; 9_"Untcj "cp/Pco n'49<44/490

 $]5;: _''Uwtcj''cp/Pcon'49 \ll 0$





Vj g'S wtøcp''y wu''gplqkpu''wu**< õ***Uwr r hec vg'{ qwt 'Nqt f .''* **dguggej kpi n{ 'cpf 'lget gw{ (b**]625_''Qpg''qh''y g''uki pu''qh'' dguggej kpi ''cpf 'y ggr kpi ''kp''y g''r tgugpeg''qh'I qf ''ku''vq''tckug''y g'' j cpf u''kp''uwr r hec wqpQ626_''Vj g''kpf ki gpv'o cp''utgvej gu''j ku'' j cpf u''vqy ctf ''y g''Cduqnwg''Cm'uwhhelgpv.''r tc{kpi ''q''J ko ''crupg'' cpf ''r wti gu''j ku''j gctv'qh''qvj gt''y cp''J ko 0'

Cnj qwi j "swpwi'ku''qpn{ ''qr vkqpcn'} o wax cdd; ''kp''r tc{gt.''kv'j cu." pgxgt y grguu. ''dggp''i kxgp''uwej ''cwgpvkqp''y cv''Ko co ''ct/Tkf c'* \div +" y wu''y tqvg''kp''qpg''qh''j ku''rgvgtu''q''O c¢o wp<"õS wpwi'ku''cp'' qdrki cvqt { ''uwppcj ''kp''cm''y g''f ckn{ ''r tc{gtu06]627_''Qh''eqwtug. ''y g'' r wtr qug''qh''y g''Ko co ''* \div +''ku''vq''go r j cul{ g''y g'' ko r qtvcpeg''qh'' swpw0'Hqt''gzco r rg. ''kh''qpg''hqti guu''vq''r gthqto ''kv''dghqtg''y g'' twmw \div ''kv'ku''tgeqo o gpf gf ''vq''r gthqto ''c''eqo r gpucvqt { ''qpg''chvgt'' twmw \div ''cpf ''kh'j g''tgo go dgtu''kv'f wtkpi ''uwlwf.''j g''o c{ ''cnq''f q''uq''' chvgt''ucrco 0

Eqpegtpkpi ''y g''gvks vgvg''qh'r gthqto kpi ''*s wpwv*.''kv'ku''y wu'' tgeqtf gf <[qw'j cxg''vq''tckug''{qwt'j cpf u''wr ''vq''y g''gxgn'qh''{qwt'' hceg=''y g''r cm u''qh'y g'j cpf u'o wuv'dg''qr gp''vqy ctf ''y g''um{ ='y g'' w q'j cpf u'o wuv'dg''ngr v'vqi gy gt='y g''hkpi gtu'o wuv'dg''emug'' vqi gy gt ''gzegr v''y g''y wo du=''cv''y g''ko g''qh'tgekskpi ''y g'' uwr r nkecvkqp.''{qw'j cxg''vq''mqm''cv''y g''r cm u''qh''y g''j cpf u''cpf '' tgekwg''kv''nqwf n{ ="qh"eqwtug. "pqv'\q''y g"gz vgpv''y cv'y g"ngcf gt"qh" y g"eqpi tgi cvkqp''y qwrf 'j gct''kv<mark>]628_</mark>"

Vj gtg''ku''pq''ur geldde''uwr r decylqp''cpf ''qpg''o c{ 'tgelkg''y j cvgxgt'' uwr r decylqp''qpg'y cpw0'K'ku''cnıq''pqv''pgeguuct{ ''y cv''y g'' uwr r decylqp''dg'tgelkgf 'lp''Ctcdle''cu''k''o c{ ''cnıq''dg'tgelkgf ''lp'' Gpi dkuj 0'Qh''eqwtug. ''ki'ku''ergct''y cv''y g''S wtøcple''uwr r decylqpu'' cpf ''y g''uwr r decylqpu''y cv''y g''Kphenddrgu''* \div +''tgcf ''lp''y glkt''s wpwi'' j cxg''ur gelcd''xtwg''cpf ''r tggo lpgpeg0'

Vjg'swpw'qhifkhgtgpv'rtc{gtu

"

Vj g''pwo dgt "qh''s *wpwi*'ku''pqvi'kf gpvkecni'kp''cmi'r tc { gtu0'Gcej ''qh''y g'' hkxg''f ckn{ ''r tc { gtu''j cu''qpg''s *wpwi*''dghqtg''y g''*t wnw*:''qh''y g''ugeqpf '' *tcm:ej* 0'Dwi'y g''Htkf c { ''eqpi tgi cvkqpcni'r tc { gt 'y j kej ''j cu''y q'' *tcm:ej* u''j cxg''y q''s *wpwu*.''qpg''dghqtg''y g''*t wnw*:''qh''y g''hktuv'' *tcm:ej* ''cpf ''y g''qy gt ''qpg''chgt ''y g''*t wnw*:''qh''y g''ugeqpf ''*tcm:ej* 0' ''

Kp''y g"-Kf''cn/Hkt''cpf"-Kf''cn/S wt dcp''r tc { gtu''gcej "qh'y j kej ''j cu'' w q''*t cmæj* u. ''y g''tgekg''pkpg''*s wpwu*="hkxg''uweeguukxg''*s wpwu*'' dghqtg''y g''*t wmw*-:"qh''y g''htuv'*t cmæj* ''cpf ''hqwt ''uweeguukxg''*s wpwu*'' dghqtg''y g''*t wmw*-:"qh''y g''ugeqpf ''*t cmæj* 0'Qh''eqwtug. ''y gtg''ku''c'' ur gekcn''uwr r nkecwqp''tgeqtf gf ''hqt''y gug''*s wpwu*0 ''

Gxgp"kp"ý g" *cncj "cn/c{cv*"}r tc{gt"qh'pcwtcn'uki pu; 'y j kej 'j cu" w q"*tcmæj* u"cpf "hkxg"*twnw*±u"kp"gxgt{"*tcmæj*."kv'ku"tgeqo o gpf gf " vq"tgekvg"ý g"*s wpwi*'dghqtg"ý g"ugeqpf."hqwtý."ukzý."cpf "gki j v" *twnw*±u."ý qwi j "kv'ku"gpqwi j "vq"j cxg"qpg"*s wpwi*'dghqtg'ý g"vgpý " *twnw*Đ

Vj g"y kt "r tc{gt."y j kej "ku"c"qpg/tcmej "r tc{gt"r gthqto gf "cv"y g" gpf "qh"y g"pki j v"uwr gtgtqi cvqt{"r tc{gtu."j cu"c"nqpi "swpw"cpf" o cp{"tgeqtf gf "uwr r necvkqpu."uwej "cu"kuki j hct"}vq"uc{."hqt" gzco r ng. "õcunci j ht wncj ö; "92" vko gu."õcn' ÷chy wö"522" vko gu"cpf" uwr r necvkqp"hqt"62"dgnkgxgtu0

Vj g''r tc{gt'hqt''tckp.''nkng''y g"+f''r tc{gtu.''j cu'hkxg''s wpwu'kp''y g" hktuv''t cmæj ''cpf ''hqwt''s wpwu'kp''y g''ugeqpf ''t cmæj 0 "

Kp"cp{"ecug."vq"r tqnqpi "vj g"*s wpwi* ku'tgeqo o gpf gf 0Cdw'F j ctt" cungf "vj g"Rtqr j gv"*U+<"õY j kej "r tc{gt"ku'dgwgt Aö"Vj g"Rtqr j gv" *U+'tgr nkgf <õVj g"r tc{gt"y j qug"*s wpwi* ku'nqpi gt "cpf "cp{qpg" y j q"y qwrf "tgekwg"j ku*'s wpwi*'nqpi gt "y km'j cxg"o qtg"eqo hqtv" f wtkpi ''y g''ko g''qh''y g''F c{ ''qh'T guwtt gevkqp $00]629_{"}$

"

Vj g's wpwv'qh'tj g'Kphc nkdngu'*∺c+

Klp'O cu÷wf 'uckf 'ý cv'ý g'tgcuqp''dgj kpf 'j ku''ceegr vcpeg''qh'Kurco " y cu'j ku'y kypguukpi 'ý g''r tc{gt''qh''ý tgg''r gtuqpu. 'xk 0'ý g''J qn{" Rtqr j gv'*U+.'J cf tcv'÷Crk'* \div +'cpf " k ____

c c C c k k c y g'tgcf <õRgceg'dg'\wr qp"{qw' y j gp"{qw'ctg'\uvcpf kpi 'hqt'r tc{gt"cpf 's wpwn#ö

Hqt"gcej "qh'ý g"Kphcmldngu"* \div +"ý gtg"j cu'dggp"tgeqtf gf "nqpi " uwr r nlecvlqpu"kp"ý g"s wpw."y j kej "y g"ecppqv's wqvg"j gtg"hqt"ncem" qh'ur ceg0'KV ku'uwtr tkukpi "ý cv'ý g"s wpwv'y kj "cm'kwu"dnguukpi u'ku" pqv'y kf gn{"cpf "htgs wgpvn{"r tcevlegf 0'Y gtg"J cf tcv'-Cnk"cpf "ý g" Mj wrchc ø'ct/T cuj kf wp"pqv'tgekkpi "s wpwv'kp"ý gkt "r tc{gtuA

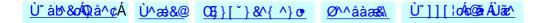
F wtkpi "s wpwi'y g''uj qwf "pqv''y kpm'qh''qwtugnxgu''cpf "qwt" tgs wguwu''qpn{0'Y g''j cxg''vq''ngctp''htqo ''J cftcv'\ cjtc''y jq''uckf $< \tilde{o}cn'l tw''y wo o c''gf/f t00]62; __''$

Vj cv'ku. 'õVj kpm'qh''{ qwt 'pgki j dqt 'hktuv'cpf ''y gp''{ qwt 'hco kn{06'' I qf 'j cu'r tqo kugf ''vq''i tcpv''y g''r gtuqpcn'tgs wguvu''qh''cp{qpg'' y j q''y qwrf ''r tc{ 'hqt ''qy gtu0'

Kp ''y g''s *wpwi*'y g''j cxg ''q''r tc{ ''ci ckpuv''qwt ''gpgo kgu. ''cunkpi 'hqt'' y g''x kevqt{ ''qh''Kurco ''cpf ''y g''O wurko uO' Kp ''j ku''s *wpwi*'y g''J qn{ ''Rtqr j gv'*U+'y qwf ''ewtug''c''i tqwr ''qh'' r gqr ng. 'o gpvkqpkpi ''y gkt ''pco gu''cpf ''f guetkr vkqpu0'Kp ''y g''s *wpwi*'' qh''j ku'r tc{gt.''J cf tcv''-Cnk'*- \dot{c} +''wugf ''vq''ewtug''O w=ey k{cj ''cpf '' -:Co tw'kdp''cn'-C Q632_''Cv'cp{ ''tcvg.''*wy cmc* ''cpf ''*wdcttc* ''ctg''' r ctv'qh''y g''tgrki kqp. ''pc{ ''y g''nqwpf cvkqp''qh''qwt ''tgrki kqp< "

õKu''y g'tgrki kqp''qy gt''y cp''qxg''cpf 'j cvtgf Aö]633_

]5; ; _"Uwtcj 'Cn'-Ko tcp''5<650]622_"Uwtcj 'cn'Ow|/co o kn'95<0 [623_'Y cuc &a'cuj / Uj k÷j .'xqt0'6.'r 0'; 340
[624_'Owht cf cv'ct/Tci j kd0
[625_''Uwt cj ''cn'C+tch9⊲770
[626_'Oc÷epk'c / cf ws.'r 0'58; 0
[627_''Dk ct ''cn'Cpy ct.''xqt0': 4.'r 0'3; 90
[628_''O cuc &a'g'S wpwif ct 'Vcy f k ''cn'O cuc &a'0
[629_''Dk ct ''cn'Cpy ct.''xqt0': 4.'r 0'4220
[62:_''Dk ct ''cn'Cpy ct.''xqt0': 4.'r 0'4220
[62:_''Dk ct ''cn'Cpy ct.''xqt0': 5..'r 0'4: 20
[62:_''Dk ct ''cn'Cpy ct.''xqt0'5..'r 0': 30
[632_''Dk ct ''cn'Cpy ct.''xqt0': 4.'r 0'4230
[633_''Dk ct ''cn'Cpy ct.''xqt0'8:..'r 0'850





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Vcuj cj j wf

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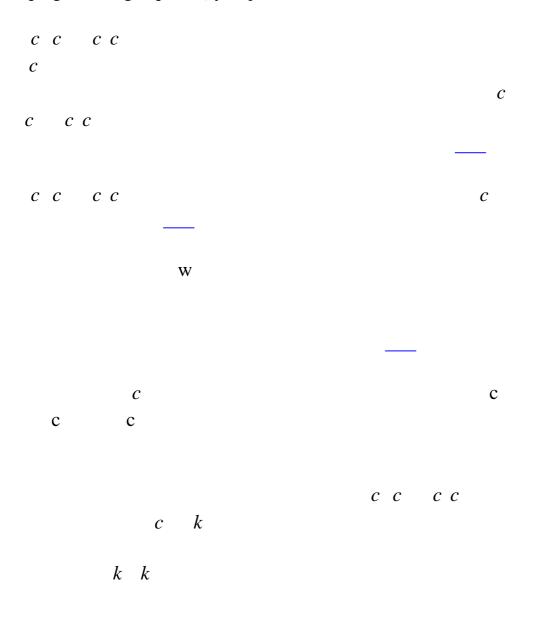
Co qpi ''y g''qdnki cvqt { ''r ctvu''qh''r tc { gt 'ku''*cuj cj j vf '*'y j kej ''ku'' tgeksgf ''kp''y g''ugeqpf ''cpf ''cuv'*t cmæj* u''qh''r tc { gt0Kp''y g'' *vcuj cj j vf* ''y g''yguvkh{ ''cpf ''dgct ''y kpguu''vq''y g''Qpgpguu''qh''Cmcj '' cpf ''y g'' c

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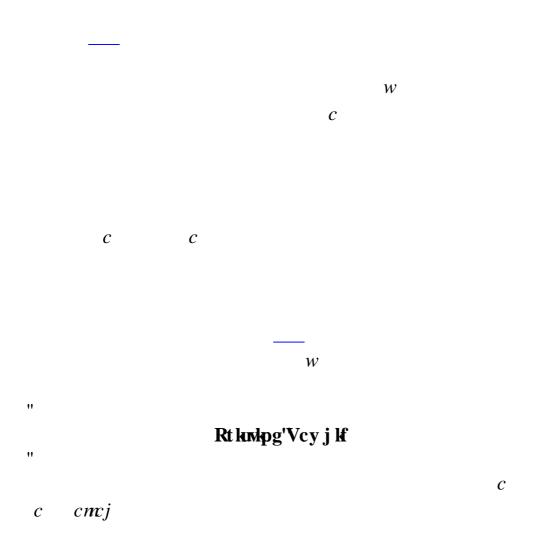
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yj g'kpcdktkv{ 'vq"cev."cu'y gm'cu'yj g"gz kuvgpeg"qh'c''uko krct"cpf "
gs wcn'dgkpi ô yj kpi u'y j kej "ctg"kpeqpegkxcdrg'y kyj 'tgur gev'vq"
I qf 0
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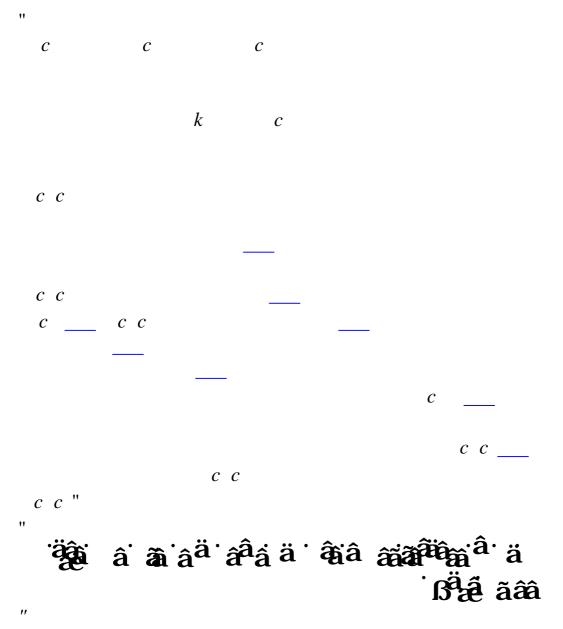
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õKo o cewncvg'ku'J g'y j q'ecttkgf 'J ku'lıgt xcpv'qp'c'' lqwtpg{ö]644_'cpf 'kv'ecwugu''y g'j gcxgpn{ 'tgxgncvkqp''q'f guegpf '' wr qp''j ko <öY g'j cxg'lıgpv'f qy p '*y g't gxgncvkqp 'lj t qwi j '' cpi gnu+'lq'Qwt 'lıgt xcpvlö]645_

I qf "cnıq"r tckugu'J ku'r tqr j guu'* \div +'hqt ''y gkt ''ugtxkwf g''q'J ko 0' Tgi ctf kpi 'J cf tcv'P w '*P qcj +'* \div +''J g''uc{u $< \delta K p f ggf ' j g' y cu'c''$ *i tc vghwnligt xcp v ö*]646_''cpf ''eqpegtpkpi ''J cf tcv''Uwc{o cp'' *Uqmo qp+'* \div +''J g''ucvgu $< \delta Y j cv'cp 'gz egngp v' ugt xcp v#ö$]647_

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õY j gp'\ig g'] {rqet kogu'eqo g'\q'{qw'\ig g{'\lc {.'+Y g'dgct'\y kpguu'' y cv'{qw'ctg'\lpfggf'\ig g'crquvng'\qh'Cncj 0b'Cncj 'hpqy u'\ig cv'' {qw'ctg'\lpfggf'J ku'Crquvng.'cpf'Cncj 'dgctu'\y kpguu'\ig cv'\ig g'' j {rqet kogu'ctg'\lpfggf'Hctu0b]648_ ''



õKpfggf'Cncj'cpf'J ku'cpi gnu'dıguu'\jg'Rtqrjgv0Q'{qw'\yjq'' jcxg'hckyj#Kpxqng'dıguukpi u'qp'j ko'cpf'kpxqng'Rgceg'\vrqp'' jko'kp'c'\yqtyj{'bcppgt0b]657_

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70Vj g'O guugpi gt "qh'Cmcj "*U+'uckf <"õVq'tgo go dgt 'I qf 'ku'c" hqto "qh'y qtuj kr "cpf "vq"tgo go dgt"o g"ku"cnuq"c"hqto "qh" y qtuj kr. "cpf "y g'uco g'ku'twg'y kj "tgur gev'vq"o { "uweeguuqt"-Crk" kdp'Cdk' cnkd06]659_

80K/ku'tgeqtf gf 'kp''y g''tcfkkqpu<"õHqt''y g''ceegr vcpeg''qh''{qvt'' uwr r nlecylqp. "ugpf " cncy cv'hltuv'dghqtg''uwr r nlecylqpi 06]65: _'P qv' qpn{ ''y g''ugpf kpi ''qh'' cncy cv''wr qp''j gctkpi ''y g''pco g''qh''y g'' Rtqr j gv^{**}U+'dw'cnq''y tkkpi 'kv'chygt''j ku'pco g''j cu'tgy ctf 0Vj g'' Rtqr j gv^{\st}U+'uckf <õVj g"cpi gu'ctg"r tc {kpi 'hqt 'vj g'hqti kxgpguu'qh" cp{qpg'y j q'y qwf 'ugpf " crcy cv'\q'o g'lp'j ku'dqqm'uq'nqpi ''cu'' o { 'pco g'gzkuu'kp''y cv'dqqn0o''''

Vjg'o cppgt 'qh'ugpf kpi 'ucncy cv

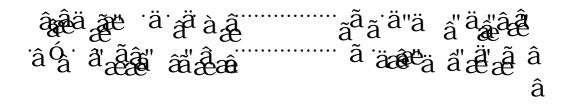
cf "*U+'uj qwrf "f ghkpkyn{ "dg" *C C* o gpvkqpgf "crqpi 'y ky 'j ku"pco g"qy gty kug"qpgøu" crcy cv'ku" kpeqo r myg"} cdvct; "cpf "f ghgevkxg065;___

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Qp''y g''i t gcvpguu''cpf ''nqhkpguu''qh'{ qwt ''uxvkqp. 'kv'ku''gpqwi j ''y cv'' cp{ qpg''y j q'f qgu'pqv'kpxqng''dnguukpi u''qp''{ qw'*kp'kpxqnkpi '' dnguukpi u''qp''y g''Rt qr j gv'*U++'kv'ku''cu''kh'j g'j cu''pqv'kpxqngf '' dnguukpi u''cv''cm2663_

[gu.'tgo go dgtkpi 'O wj co o cf øu'r tqi gp{ 'kp''gxgt{ 'r tc{gt'' kpf kecvgu'yj cv'chvgt 'yj g''Rtqr j gv'*U+'y g''j cxg'vq''tghgt 'vq''j ku''*Cj n'' cn/Dc{v'**U+'cpf ''pqv'vq''qyj gtu0Cpf 'kh''kv'ku''pqv'tgcm{ 'uq.'' o gpvkqpkpi ''yj g''pco gu''qh'r gtuqpu''y j qug'r cyj ''ku''pqv'pgeguuct{ '' vq''tgcf.''gur gekcm{ ''kp''gxgt{ 'r tc{gt.''y qwrf ''dg''cp''cev''qh'' gzvtgo kuo 0

C''egt vckp''r gtuqp''y cu''erkpi kpi ''uvgcf hcuvn{ ''vq''y g'' $Mc \rightarrow dcj$ ''cpf '' ugpf kpi '' cncy cv''dw''pqv''kpenwf kpi ''y g''r tqi gp{ ''qh''O wj co o cf '' *U+0'Ko co ''c / c

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Vj tqwi j ''y g''*cmdkt cj ''cn'k tco*.''y g''f gvcej gf ''qwtugnxgu'htqo '' etgcvkqp''}*nj cn*s; ''cpf ''cvcej gf ''qwtugnxgu''vq''y g''Etgcvqt'' }*nj crks*; O'Cv'y g''gpf ''qh''y g''r tc{gt'y g''cnuq''htuv'eqpxg{'' ucnwcvkqp''vq''y g''i go ''qh'etgcvkqp.''xk O'y g''J qn{ ''Rtqr j gv'*U+O' Vj gp.''y g''gzvgpf ''qwt''ucnwcvkqp''vq''y g''tki j vgqwu''ugtxcpvu''qh'' I qf <''

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]<u>634_</u>"Untcj "Ch'**-K**o tcp"5⊰3:0 <u>]635_</u>"Dk ct "cn'Cpy ct."xqn0; 5."õDcd"cv/Vcj nhdy c"Hc ncj 0o <u>]636_</u>"*Dk ct "cn/Cpy ct*."xqn0'5."r 0350 $]637''_K'tghgtu'vq''U_ktcj''cp/Pkuc\phi'6< 6< 6< 7 q''pqv'uc{'vq''uqo gqpg''$ $y j q''qHgtu'' qw'r gceg. "# qw'ctg''pqv'c''dgrkgxgt \varnotheta 00'$ $638''_{Lco} k = cn'C cf kj : xqn03.'r 03::0$]639_"Hctc//j c¢k'c/ 'Vctknj/g'Kurco k'}J ki j nki j vu'qh'Kurco ke" J kuvqt{;."r03330]63: _''Dk ct ''cn'Cpy ct.''xqn099.''r 0'6240]63; _"Uwtcj "cv/Vc tko "88⊲330]642_"Untcj "Cn'-Kotcp"5< 3<"õY j gp 'Cncj 'lqqnlc'leqo r cev'' eqpegtplpi 'ij g'rtqrj gvu.'}J g'uclf.;'*Kpcuo wej 'cu'Kj cxg'' i kxpp '{qw'ah'ij g'Dqqm'cpf 'y kuf qo .'ij qwnf 'cp 'cr qumg'eqo g'iq'' {qw'ij gt gc hgt 'eqp ht o kpi 'j j cv'ku'j kj '{qw.'{qw'lj cn/dghgxg'' kp'j ko 'cpf'j gnr'j ko 0/J g'lickf. '+Fq'{qw'r ingfi g'cpf 'ceegr v'O {'' eqxgpcpv'qp'ij ku'eqpf kkqpAø'Vjg{'ickf.''-Yg'r ngf i g0ø'Jg'lickf.'' ÷Vj gp 'dg'y kpguugu 'cpf 'Kco 'cnuq'co qpi 'y g'y kpguugu'cupi '' y kj '{qwølb]643_"Unt cj "Nws o cp"53<350]644_"Unt cj "cn Kut cø**qt"Dcpk'Kut cøhr+"39-30]645_"Untcj "cn/Dcsctcj "4450]646_"Unt cj "cn/Kut cø^{*}qt"Dcpk'Kut cøh+3950

]647_''Uwt cj '' cf ''5: <520]648_''Unt cj ''cn' O wpc Hs wp '8530']649_"Untcj "cuj /Uj wtc"64 45 < õUc{. 'Kf q'pqv'cundhl{qw'cp{" tgy ctf 'hqt 'ky'gz egr v'ij g'chhgevlqp 'hqt '}o { ;'t grc vlxgulb]64: _'Y cuc økrl'cuj /Uj k÷cj .''xqr0'6.''r 034380 **64**; "*Cn/Mc lk*."xqr04."r 06; 40 <u>]652_''Dk ct ''cn'Cpy ct .''xqr0'; 6.''r 0760</u>]653_'Y cuc økrl'cuj /Uj k÷cj .''xqr0'6.''r 034420 $\frac{1654}{654}$ "Okt $\div i$ "cn' $\div Ws wn$ "xqn034."r 032; 0]655_''Dk ct ''cn'Cpy ct.''xqn0'; 6.''r 0850]656_'Y cuc dvi/cuj /Uj k÷cj .'xqr06.'r 034380 <u>]657_''Uwtcj "cn/C /cd'55</u>

780]658_"Vchukt "Pwt "cvj /Vj cscnc{p."xqr06."r 05270 **659_'Dk** ct ''cn'Cpy ct.''xqn0'; 6.''r 08; 0]65: _'Dk ct ''cn'Cpy ct .''xqn0'; 6.''r 0860]65; _'Cu's wqvgf 'kp''Vchukt/g'P go wpgj .''xqr039.''r 06420 $\frac{1662}{C}$ "Cu's wqvgf "kp" Vchukt "cn' O k/cp. "xqn038. "r 0587=" c k " cn/Dwnj ctk.'xqn08.'r 03730 <u>]663_</u>"*Cn/I j cf kt*."xqr04."r 0525"s wqvkpi "O wupcf "C o cf "kdp" *cpdcn*'xqr08.'r 05450]664_"Y cuc økrl'cuj /Uj k÷cj."xqr0%."r 0343: 0 $\frac{1665}{100}$ "Y cuc dvi/cuj /Uj k÷cj."xqn06."r 0343; 0]666_'Cn/Mclk.'xqr04.'r 05; 90 <u>]667_</u>"*Dk ct "cn/Cpy ct*."xqn0; 6."r 06: 0]668_'Y cuc¢ki/cuj /Uj k÷cj .'xqn06.'r 034420 **]669_''U**wtcj "cn'C |cd'55⊲780]66: _"Uwtcj "c / c c]66; _''Untcj "c / c c]672_"Untcj "c / c c <u>]673_</u>"Unt cj "c / c c]674_'Dk ct ''cn'Cpy ct.''xqr0'38.''r 0'; : 0]675_'Dk ct ''cn'Cpy ct.''xqt0': 6.''r 04990 **676** "Unt cj "cp/Phucø'6< 80

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Vchikt 'C kd''cn/Dc{cp0 Vchikt 'Dwt j cp0 Vchikt 'Mcp/ ''cf/F cs cøks0' Vchikt/g'P go wpgj0 Vchikt 'Pwt ''cvj/Vj cs cnc{p0 Vco cuj ci cj/g'Tc/0 Y cucøkn''cuj/Uj k÷cj0 \ c{f 'kdp''÷Cnk0 '' A Commentary on Prayer Vãd^ $V_{a} \bullet [\tilde{a}^{A}] = \tilde{a}^{A}_{a} = \tilde{a}^{A}_{a}$ Ú`àlã@lqÁ2[l^, [lå Ø |^_ [|å Chapter 1 Y [| • @ A. fa an an an A Ù^¦çãč å^Á±à` åã^ æ@ ËY @2004 F Á [!• @2] Á = B 200 A ËÞæč¦æļÁåã;][•ãtā]}Á,-ãtæ@øÁ Ë/@ÁÜ[[ơÁ ÁY [!• @] ËV@•Á;¦[~`}åãĉÁ;A,[¦•@a] ËQåã-~\\^} & Át, æåÅ • @ Ë/@A, [^æ`¦^A, ÁÕ[åÁæ Á c@ Á<u>æ¢ã Á Á [¦•@</u>] Ë/@Á]ããÁ Á [¦•@] ËT [å^¦æeaa]}Áa]Áa[¦•@a] <u>Ë</u>Tæ}æ≛^{ ^}oÁ\$JÁ`[¦•@2] ËY [¦•@2], Áæ•, ÁæÁG Ë@_`¦Á] @##{ ##&^ <u>ËY [|• @] Áze Áz@ Á [` | &^ Á Á</u> dæ)ĭĭåãĉ ËY [¦• @2], Áse) å Áse&ĭ ँã ãaã} }• Ë/@A^&a; | [&adA~~^&o A ~A Ë/@Á@II•[]@ÁÁÁ[¦•@AÁ æ&&[¦åð]*Á§[Áo@^ÁÛ`¦ope] ËÚ¦æ^\Á§ Ás@^Á [¦å•Á Á

Q af fiáced Ë/@Á~A&•Áæ}åÁa|^••ã*•Á [-ÁA^¦çãč å^Áæ) åÁ×`à{ã•ã}} **^∙ c⁄^{** $\overline{\mathbf{GH}}^{\mathbf{A}} \cdot \mathbf{A}^{\mathbf{A}} \mathbf{A}^{\mathbf{A}$ IÈÁV¦æðajða *Áset*^}c Í ÉÁÙĭ { { [}ã;*Á`]Á+]ããa•Â Ë/@Áçãæ*^Á;-Á;¦æ^\; ËÚ¦æ^¦Á<u>æ}åÁo@</u>ÁÛ`¦œe} ËÚ¦æ^\Áse)åÁĭãaæÂ ËY [¦• @] Áz) åÁ* ælåãe) • @] ËÚ¦æ^\Áad åÁ^æå^¦•@] Ë/@Á&^*¦^^•Á~~Á [¦•@] Ë/@Áçãæ*^Á -Á [¦•@] ËÚ¦æ^¦•Áx@eeA^latc^Á åã-ã k |c Ë/@A.¦æ^¦A.ARææædA æË/æ^æ Ë/@Áæ}&æĉ<u>ÁÁ¦æ^</u>} $\underline{\ddot{E}}/\underline{@}\dot{A}V$ $\underline{\ddot{a}}_{1}^{+} = \underline{a}_{\underline{a}}\underline{\widetilde{a}}_{1}^{+} \underline{A}U$ $\underline{a}_{1}^{+} \underline{a}_{2}^{+}$

Chapter 2 (Q, c^{A}) (a_{1}) (A_{1}) (a_{2}) (A_{2}) ($\ddot{\mathbf{E}} \dot{\mathbf{a}} & \mathbf{a} \\ \dot{\mathbf{A}} \dot{\mathbf{Q}} & \mathbf{c} \\ \dot{\mathbf{A}} \dot{\mathbf{Q}} & \mathbf{c} \\ \dot{\mathbf{A}} \dot{\mathbf{A}} \dot{\mathbf{Q}} & \mathbf{c} \\ \dot{\mathbf{A}} \dot{\mathbf{A}} \dot{\mathbf{A}} \dot{\mathbf{A}} \dot{\mathbf{C}} \dot{\mathbf{A}} \dot{\mathbf{A}}$ Ë/@^Á([cãc^Á{;¦Á<^^\ã*Á }^æ}}^••Á~~`¦à¤Át ÁOElæ@ Ë/@\Á\$a^*¦^^•Á\~A\¦[¢ãi ãĉ Á ĭĭ¦à¤ ËY ^Á@eecc^Áq Áj ç^ÁÕ[åÁj ¦Á $(@A a A^{A} A 0] a$ $\ddot{\mathsf{E}}$]¦[¢ãi ãc Á˘˘¦à¤ ËÛ čahácî Án ¦Á čah, cacî Ñ ËQEÁÜ^&[||^&cat } $\mathbf{EOE} \left[\mathbf{COO} \right] \mathbf{A}^{8} \left[||^{8} \mathbf{CaI} \right]$ Ë/@^Á\$jc^}cāj}Á*ãç^•Áçæj*^Á d Ás@^Áå^^å $\ddot{\mathsf{E}}$ / [$\dot{\mathsf{A}}$ @ard[$\dot{\mathsf{a}}$ &ade/ $\dot{\mathsf{A}}$ ade/ $\dot{\mathsf{A}}$ ade/ $\dot{\mathsf{a}}$ }] \bullet ËQEÁ^&[||^&cal} Ë/@Á~~^&œÁæ)åÁa|^••ã*•Á

 Chapter 3

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Chapter 4 Ú^{*} ¦æØÅseEØææã@æ@ Ë/@^Á§;•d`&cãc^Á^••[}•Á;-Á Ù ¦æ@źdËØæã@æ@ ËÕã {ãi læ@ãi lêæ@? æ) ãi lêæ@ã Á Ë/@^Á[¦åÁAGE[æ@-ËGEË de a ja a Ëluizaa a Ástel Esetetet a HÁ ËQEË æ@ æ) ãdË æ@ + ˉTa detããÁ æ;{ão‡a Ëåã}+ Ë/@^ÁQEæàã&Á [¦åÁ‱ã]+ Ë/Q,^ ætæÁ, æta`åÁ, æ4ã,^ æ4á aæA }æcæði +Á ËQQA a æ ËJa æ Á O⊞ËT ĭ•cæĭãi + ËY @38.@4,}^Áa; Ás@^ÁÙd æðt @A Úæ 🆓 Ëlui a zerket zer @a zerket + zer (zerk ±ete æî@aĭÁ*@eê ¦ãotË;æ*@aĭàãÁ ±etaê @ Á ætaê Ëa æta tá ËY @ Áse ^ Ás@ • ^ Á @ Áse ^ Á ædæî Áse) å Á@æc^ Ási & `¦\^å Á

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 Chapter 7

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 Chapter 10

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