



# ( 4 2 2 : 3.9 > 89 & 3 ) & 7 ) 8 2 & 3 : & 1

## .LRPMBSARGML

ĽāYāŌŽā \ 'bAYāZANYbā^ā'ŸAUā | Žā'ā' b [DAŌ^āāNY@^āāUā | Žā'ā' b [Aāb@' | ŽāAb^Aa^ābŽ@AbāŽAa \ āāŽābAZŽ | Žā^~ & ŽābA^āa  
 'bāAāb \ ZZābāA'āAYāAYb & ^ā~āŽ@ZA^āYŸ@ZAYāZAY^āYŽ@āāEAbāŽAŌŽā \ 'bA | Yā \ ŽA^āAÉIIEA IÉIIGHGE@IĀAbāŽAYŸ@ŽA^āa  
 ŽYŸāYāZāZ | Ž@ [A'āZ' | 'Z\YāDAYā^āāA { 'bāAbāŽAUā | Žā'ā' b [ 'āA & 'āā^āAb^ā' āā~ '@Zā'āZ' | 'Z\YāāAb^āZ' } YŽā'āā  
 āZY@ā'āāDAāŽYZZ@āā~DAYāZāZ@ | 'YŽAYŸāā \ āAb^ā~@^ & ^bZābāZāA@^ { bāAYāZAZŽ | Žā^~ & ŽābA^āAbāŽA { ā^āZā~Žā^āāEā  
 Pā'āā'āAYāā^AY@b'Ÿ\āYbZZA'āAbāŽAUā | Žā'ā' b [ 'āY^@Zā | Yā \ ŽāAbāYbYŸāāA^@AbāŽAY@ŽYb'āā^āaYā@'ā^@^āAY~@^YŸā  
 b^āA'āYā^āY@āā~DAYāā'āYā\ā' | ŽAY^& & \ā' b [A { āŽ@Zā'āāZ@'āā^~ābā^āa | Ž { AYāZāZ' } ~Ž@'ŽāYŽAY@Zā | Yā \ ZZDAYA  
 Ÿ^& & b & ŽābAb^āāY@'āā^@Aā'abāDAYāZAYāAY~@ŽY'Yb'āābāYbA^@A~Žā^āYāYāZAY^āāZŸb' | ŽAYā^YŽāYŸā  
 Ÿ \ 'āZAYā & ^@Zāā \ ābA { ^@āZÉAR \ @AY^& & \ā' b [A^āZāā'āāZ' } ~ŽYb'Yb'āā^āa^āā { A { Žāā' | ŽAYāZā'ābZ@YŸbA { 'bāZŸYāA  
 ^bāZ@AYāA { ŽAY@ZAYāā'ābZ@Y^āāZŸbZZAYāZAbā \ āAbāŽAYŸb'āā^āa^āZā^āA \ āAāYāYāZāāZŸbā^āA \ āAY^āāZŸb' | Žā [EA  
 ŠZā~ŽYbAa^@AāZāāDA@Zā~ŽYbAa^@A^āZ@Zā~ŽYbAa^@A~@^~Ž@b [DA@Zā~ŽYbAa^@AY \ bā^@'b [DAYāZāā^āZāb [DAY^bāA  
 { 'bā'āAYāZā^ \ bā'ZZābāZāUā | Žā'ā' b [AŸ^& & \ā' b [AY@ZābāZā^ \ āZŸb'āāA^@A^ \ @AbYāZAY@Zā^āY^āZ \ ŸbÉAŌā  
 ^@ZZ@Aa^@A^ \ @AY^& & \ā' b [Ab^Abā@' | ZDAYāā&Ž&ŸZ@āA \ ābAYZAYŸb' | Žā'āY^āb@'Ÿ \ b'āāAb^AYāZā | @^ā & ŽābA { āZ@Zā  
 ~Ž^~āZāZŽāYāZāā \ ābYāZāZāāYāZāZDAYāYāāZāāZDAYāZAY~@ŽY'YbZZÉU Žā & \ ābAYāā^āa^āZā^ \ āZā' | ŽāAYāZā  
 ŽYŸā^bāZ@AYŸŸ^ \ ābYŸāZā^@A^ \ @AYŸb'āāAYāYA~Y@bA^āA^ \ @AY^& & \ā' b [Aā'āZÉ

## .I 89 : ) \* 39 ( 43 ) : ( 9 8 > 89 \* 2

### 89 : ) \* 39 ( 4 ) \* 4 + ( 43 ) : ( 9

Tb \ ZZābāA Žā^āā'āā'āā Ō^āā NY@^āāUā | Žā'ā' b [A Yāā \ & ŽAYāA ^Yā'āYb'āāb^ā YŽāY | Žā'ā' YA & YāāZ@A  
 Ÿ^& ~Yb'ŸāZā { 'bāA bāZā Uā | Žā'ā' b [ 'āA a \ āYb'āā YāA YāA ŽZ \ ŸYb'āāYāā'āāb' b \ 'āāEā PāZā ~ \ @~āZā ^āa bāZā  
 Tb \ ZZābA N^āZā ^āa N^āZ \ ŸbDA āZ@Z'āA @ZāZ@Zā b^ā YāA bāZā Tb \ ZZābA N^āZDA 'āa b^ā ŽābYŸā'āāA bāZā  
 Ž' } ~ŽYb'Yb'āāA@ZāY@Z'āāAāb \ ZZābā'AYŽāY | ^@DAYāZAb^āZ' } ~YāZā \ ~āAbāZā@'āābAYāZā@Zā~āā'Ÿ'ā' b Žāā  
 ^āāb \ ZZābāEāPāZāZāā \ 'ZZā'āZāAY@Zāā^bAY@Ÿ' b@Y@ [AāZā'āāYb'āāY \ bāāY | ŽDAYābāZ@'@A~@' & Y@ [A~ \ @~āZDA  
 bāZā { ŽāAY@Zā ^āa āb \ ZZābāAYāZābāZāŽāb'@ZāŌ^āāNY@^āāY^& & \ā' b [EāPāZ [AāY | ŽāYZZāA^@ & \āYbZZA  
 { 'bāA bāZā ^YāZŸb' | Žā'ā' Z@ZŸb'āāAYāZāYāāZā'āābāZāZāa^@bāA ^āa Ō^āā NY@^āā āb \ ZZābāA b^ { Y@ZAYā  
 ā \ ŸYŽāāā \ ā \ ā' | Žā'ā' b [Aā'āZÉ

PāZāUā | Žā'ā' b [A'āZŽZ'ŸYbZZA'āAb^āā [Ab^AāZŸ@'āāAYāZAbāZāYZ | YāŸZ & ŽābA^āAāā^ { āZŽāZDAY \ bAYāā^A  
 b^AbāZā { ā^āZāZŽ | Žā^~ & ŽābA^āA~Žā^āāā { 'bā'āAbāZāNYbā^ā'ŸAYāZāŌŽā \ 'bAb@YZ' b'āāEāPāZāUā | Žā'ā' b [A

^āAāb \ ZZā ā°B ā^b^ { ^

Uá | Ž@ã'b[AYãÿ^â^ãÿYÝŽ | Ž@YáŽA~^ãÿ[A  
âbb~íÉÉã'bŽãÉãÿ\ÉZZ\ÉZZYá^ããb\ZZãbãÉ~YáŽãÉÿ^& & \á'b[EA  
ãbYáZY@ZãÉÿãÿ^ãÿÿEYÝŽ | Ž@YáŽE~^ãÿÿ[ÉABÉ

ÝÉÁ Ú'^ãÿb'ááAbãŽAUá' | Ž@ã'b[AZ@\áA~^ãÿÿ[ÉAÞã'ãá'ãÿã\ZZãDAÿ\ba'ãã^ããá' & ÞZZAb^DA  
& 'ã\ã'ááA~@Žãÿ@'~b'^ãAZ@\áãDAYŽ'áá'ãAbãŽA~@ŽãŽãÿŽA^ã^@A~^ããŽãã'ááDA  
\ã'ááDAZ'ãb@ÿ\ã'ááDAYãŽÉ^@AãŽãã'ááAãÿÿ^b'ÿãDAZ@\áA~Y@Y~ãŽ@ãYá'YDA^ããŽ@A  
Z@\áãDA^@AYá[Aÿ^ãb@^ããŽZAã\YãbYãÿŽA'ããŽãYãã[ÉAObA& \ãbAYŽA\ãZZ@ãb^ãZAbãYba  
bãŽAZããÿÿbã^ããAZ@\áãAZ^ãã^ãbããã'Ž | Žã'ãZ'J'Z\Yãã^ããbããŽ@ãããã~^ããÿ'ã'b[Ab^A  
bãŽ&ããã | ŽãAYãŽÉ^@Abãããÿ^& & \á'b[ÉAATZZAããããUá' | Ž@ã'b[AZ@\áA~^ãÿÿ[A  
âbb~íÉÉã'bŽãÉãÿ\ÉZZ\ÉZZYá^ããb\ZZãbãÉ~YáŽãÉÿ^& & \á'b[EA  
ãbYáZY@ZãÉ\á | Žãã'b[ÉZ@\áE~^ãÿÿ[ÉABÉ

**LI 1?AI MD 7CQNCAR DMP 4RFCPQ**

ZAbE      @YÉA      Ł Š \ã'ááDAY      Š      bãB      A      '~b'Z\Y'ãÿããã      `      `B      A'ãÿã\Zããã



† 1?AI MD 7CQNCAR DMP 5PMNCPRW

YÉA OááYá'ááA'ábáŽĀ\áY\ bá^@']ŽZĀŽáb@ [A'áb^DA\āŽĀ^aDA^@A^ŸŸ\~YaŸ [A^aA  
Uá' | ŽĀ' b [A~@Ž & 'āžĀĒ  
YÉA OááYá'ááA'ábáŽĀYbbŽ&~bŽZ^A^AYŸb\YáAbāŽabA^aDA & 'á\āŽĀ^aDAZY & YáŽAb^DA^@A  
ZŽāb@ \Yb'^áA^aA'āāb'b\ b'^áYāDAá@^ \~DA^@A~@ | YbŽA~@^~Ž@b [DA'áŸá\Z'ááAá'Ÿ@Y@ [A  
& YbŽ@YāDAŸ^ & ~\bŽ@āDA^@AŸ^ & ~\bŽ@'] ŽZĀ'áa^@ & Yb'^áĒ  
YÉA OááYá'ááA'áAY@ā^āA^AbāŽĀ'@Žā~^āá'ŸZĀ\āŽĀ^aA@'ŽĒ  
ZÉA S^āāžāā'ááA~@^~Ž@b [AbāYbA'āAā^bA [^\@A^ { āDAā\ŸāAYāA^@^ & AæŽ [āA^@A  
Uá' | ŽĀ' b [A'ZŽāb'a'ŸYb'^áĒĒ

ŽI 1?AI MD 7CQNCAR DMP &SRFMPGRW

YÉA ŌābŽ@aŽ@'ááA'ábŽāb'^áYāā [A { 'bāAYá [Aā^@ & YāAa\āŸb'^āA^aAYAUá' | ŽĀ' b [A  
ā~^āā^@ŽZAYŸb' | b [DA^āA^@A^aaAYŸ & ~\āĒ  
YÉA Ú'^áYb'ááA~\Ÿ'áāŽZĀ~^á'Ÿ'žāAYáZĒ^@A@ \āžāAá^ | ŽĀ' ááA@žā'ZŽāŸŽĀAYāāDA  
āb\ZŽābA^@áYá'] Yb'^āāDA^@AbāŽAUá' | ŽĀ' b [É  
YÉA OááYá'ááA'áā'žāZáYāAY & Yá'ááĒ  
ZÉA ŒEY'á'ááAb^AY^ & ~ā [A { 'bāAZ'@ŽŸb'^āāA^aAUá' | ŽĀ' b [AŽ & ~ā^ [ŽŽāAYŸb'ááA'ábāŽĀ  
~Ž@a^@ & YáŸŽĀ^aAbāž'@AZ\ b'žĀĒPā'áá'áŸá\ZŽāDAY\ bA'āAā^bAá' & 'bZZAb^DAŌNUSŃA  
~Ž@a^āāžāDAŠžā'ZŽāŸŽĀŌ'ažāAbYaaDAYāZĀŌNUAŃ'á'ááAbYaaĒ  
ŽÉA OááYá'ááA'áAYŸbāA^@AZŽŽāAbāYbA | 'áYbŽĀž' } 'āb'ááAažžž@YāDAābYbžDAŸ^ \āb [DA^@A  
& \āŸ~YāAaY { āA^@A^@Z'áYāŸžĀĒ  
áÉA Šžā\á'ááAb^Aāā^ { A^@Aā \@@žāžž@AUá' | ŽĀ' b [A'ZŽāb'a'ŸYb'^āA\~^āA@ž\* \žābAY [A  
Uá' | ŽĀ' b [AŽ & ~ā^ [ŽŽāAYŸb'ááA'ábāžĀ~Ž@a^@ & YáŸŽĀ^aAbāž'@AZ\ b'žĀĒ  
áÉA ŒEY'á'ááAb^AY~žY@AYžā^@žAbāžĀŃžYāA^aTb\ZŽābāA^@AZžā'áāžžĒ  
āÉA ŒEY'á'ááAb^AY^~ž@YbžĀ { 'bāAYá [ATb\ZŽābAN^áZ\ŸbAŁZ & 'á'āb@Yb^@EM^Y@ZAY [A  
á^bAYž'ááAa^@bāŸ^ & 'ááAYāZĀā^āžābA { 'bāA'áa^@ & Yb'^áĒ  
ÉA ŒEY'á'ááAb^AY^ & ~ā [A { 'bāAZ'āŸ'~ā'áY@ [AYŸb'^āāA' & ~^āžžā'áAYAb' & žā [A & YāāžžĒ  
āÉA Ú'^áYb'ááAYA~@'ābžžā~^á'Ÿ [A'āā\žžAY [AŁŸYZž & ŸAŁaaY'@āi

ži ) 6QFMLCQRW

YÉA OááYá'ááA'áAYá [Aa^@ & A^aAZ'āā^āžāb [DA'áŸá\Z'ááAYŸYZž & ŸAZ'āā^āžāb [ÉA  
ĀTžžAŁŸYZž & ŸAŌ^āžāb [AS^á'Ÿ [A  
[ābb~ĪĒā' bžāĒāŸ\Ēžž\Ēžžā^āāb\ZžābāĒ~YāžāĒŸ^ & \ā'b \[ÉA](#)  
[ābYāZY@ZāŸYŸYZž & ŸĒā^āžāb \[ÉA](#)  
YÉA Œ\@ā'āā'ááAAYāžā'Zžāb'a'ŸYb'^āAb^AbāžĀUá' | ŽĀ' b [Aæā^ { 'ááá [É  
P'ā@ž~@žāžāb'ááA'áa^@ & Yb'^āAYŸ^ \bA^āžāžāA^@A^bāžāA { āžāA~@^ | Z'ááA  
'áa^@ & Yb'^āAb^AYAUá' | ŽĀ' b [A^aa'Ÿ'YāAYŸb'ááA'ábāžĀ~Ž@a^@ & YáŸŽĀ^aAā'āĒāžĀ  
Z\ b'žĀĒ  
YÉA OááYá'ááA'áAa^@áž@ [DAYābž@Yb'^āDA^@AbāžĀ\áY\ bá^@'] ŽZĀ\āžĀ^aAUá' | ŽĀ' b [A  
@žŸ^@ZāDAZ^Ÿ\ & žābāDA^@A'āāb@\ & žābāA^aA'Zžāb'a'ŸYb'^áĒ  
ZÉA P'ā\á'ááA'áYáŸ'YāAYāā'ābYāŸžĀŸZBāā@^ \āāAa@Y\ZAYāZĒ^@AYŸ\āžĒ

pāžAYŸ^ | ŽĀž' Y & ~āžāAY@žā'āā\āb@Yb' | žā@Ybāž@AbāYāAž' áY\āb' | žĒAŌāAbāžĀž' | žābAbāYbAbāž@žAY@'āžāA  
ā^ & žAY & Ÿ'á' b [DA'áŸáāā'ābžāŸ [A^@AžžžAa^@AYāY@'a'ŸYb'^āA'āAbā'āāābYbž & žābDAā\ŸāAZžā'á'b'^āDA  
'ābž@~@žYb'^āA^@AYāY@'a'ŸYb'^āAāāYāāŸZžž'ZžžAY [AbāžĀŃžYāA^aTb\ZžābāĒ

Tb\ZžābāAāā^ \āZAY^āā\ābAbāžĀUážž@á@YZ\YbžĒŌ@YZ\YbžAM\āāžb'āāDAbāžĀN^ & \ā'b [ATbYāZY@ZāA  
PYā\YāDAbāžĀŠžā'ZžāŸžĀŌ'ažāA^ \ā'ááAY^āb@YŸbDAbāžĀŌ & žžā'áAYāZATb\Z [AŁŸ^AYZĀŁá@žž & žābāDA  
YāZĀ^bāžĀ~\Ÿ'áāžžĀUá' | ŽĀ' b [A~^á'Ÿ'žāAa^@AYA & ^@žĀŸ^ & ~āžžā'ābA^aAž' } ~žŸYb'^āāYāZĀ  
@žā\āYb'^āāĒ



**\* I 1GKGR?RGLML ML &ARGTGRGCQ ?LB/MP &AACQQ**

Ō & 'bYb' 'āāā' āAYb' | 'b' ZāA^@AYY' ZāāAY@ZAYāā' āāZZA' aAbāZā~@^ā' Y' b' 'āAa@^ & A~Y@b' Y' ~Yb' 'āā' āA  
Y' ZbY' āAYb' | 'b' ZāDAZ' | ZābāDA^@AaY' 'ā' b' ZāāYaāY' ZāZāZbZ' & 'āZZAb^AYZā' ābāZāY' Zābā' ābZ' Zābā^aA  
bāZāāb\ ZZābAYāZÉ^@AbāZāUā' | Zāā' b' [ÉAŌ & 'bYb' 'āāā' āAYb' | 'b' ZāYaZÉ^@AYY' Zāā & Y [A  
'āYā' ZZDA' Y' bAY@Zā^a^bā & 'bZZAb^DAbāZā^āā^ { 'āāIAYā' } ZZA~Z' ^Z^A^ā' āZā' ā' Y' ā' b' [Aa^@āZ' | YZAYā  
YāA^aa YZ@A^@A & Z' YZ@A^aAYā [AUā' | Zāā' b' [A^@āYā' ] Yb' 'āāDA^@AYāYA & Z' YZ@A^aAYā [A  
Uā' | Zāā' b' [AY^ & 'bbZZāDA' Y^Y@ZāDA^@AY^ \ 'āY' āDA^@AYāYA~Y@b' Y' ~Yābā' āAYā [A' ābZ' Y' āāZā' YbZā  
Y' Yb' | b' [Iā' āZā' ā' Y' ā' b' [Ab^A@Z' YZ' | Zā^@A & Y' ābY' āAYā [AY { Y@Za@^ & AbāZāUā' | Zāā' b' [Iā~@^ā' Y' b' 'āA  
a@^ & AYbbZāZAYāYbāā^Y' YāZ' | ZābāI@Zāb@' YbZāZāb@YāYZā' āb^A | Y@' \ 'āA Uā' | Zāā' b' [AY' 'āZ' āāIā  
^@A@Zāb@' Yb' 'āAa@^ & AYāāA^@ & āA^aY' ābY' YbA { 'bāAYZ' bY' ā~Z' ā' āāBÉ

**+I (MKKSLGRW 5PM@?RGLM**

N^ & \ 'ā' b' [A~@^Y' Yb' 'āā' āAYAa^@ & Yāā^b' YZAb^AbāZāAb \ ZZābAbāYbāāÉāZāYāāZāāYāZZā' āA  
Y' ZāY | ^@AbāYbā' āA \ 'āY' YZ~bY' YāZā' āAbāZāāZāZ' YāAYY & ~\ 'āY^ & & \ 'ā' b' [DAZ' bāZ@A^āA^@A^aA  
Y' Y & ~\ 'āAYāZAbāYbā' āY' ā' ā' b' ZZA^@A^bāZ@A' āY~@^~@' YbZAYZāY | ^@Aa^āā { āDA & ^@ZāZ' | Z' Zā  
Y' Yb' 'āA & Y [AYZAbYāZāDA' āYā \ Z' āāAbāZā~^āā' Y' ā' b' [A^aā^ \ 'ā' āāAY' āb@Y' YbAbZ@ & 'āYb' 'āDA  
Uā' | Zāā' b' [A~@^Y' Yb' 'āāDAZāZāZ' Zāā \ ā~Zāā' 'āDA \ ā~Zāā' 'āDA' YāZÉ^@A^Z' ] ~\ 'āā' 'āAa@^ & AŌ^āāA  
NY@^@āA Uā' | Zāā' b' [ÉAN^ & & \ 'ā' b' [A~@^Y' Yb' 'āā' āA^@AYa^' } ZZA~Z' ^Z^A^Ab' & ZābāYbā' āA  
ZZbZ@ & 'āZZAY [AbāZāTb \ ZZābAN^āZ \ YbAŁZ & 'ā' āb@Yb^@EM^Y@ZÉA' aā' Y' Yāā^ \ YZā^aA  
Y^ & & \ 'ā' b' [A~@^Y' Yb' 'āā & Y [AYZā~@^ | ZZZAb^AbāZāAb \ ZZāb' āA~Y@ZābāBÉā \ Y@Z' YāāBā' aAbāZā  
āb \ ZZābā' āAYAZZ~ZāZZābÉ

**, I 7CQGBCLAC - ?JJ 7C?QQGELKCLR**

pā' āAYb' 'āā' ā' | ā' | ZāA & ^ | 'āāAYāb \ ZZābā^ \ b^aAā' āÉāZ@AYāā' āāZZA^@ & DAāYāāÉ { 'āāDA^@A  
Y' \ 'āZ' 'āāAa^@AYāā~Z' Y' a' Yā~Z' ^Z^A^Ab' & Zā^@A~Z' & YāZābā [ÉAbā' āA \ 'ā' Yāā [AYY@Zā' AYā | 'ā' bYb' 'āA  
@Zāb@' Yb' 'āAb^AbāZā~@Z' | ^ \ 'āā [AYāā' āāZZA^@^ & DAaā^@É { 'āāDA^@AY' 'āZ' 'āāÉAObA & Y [AYZā  
āZ' YZāāY@ [Ab^A & ^ | ZābāZāAb \ ZZābAb^AYAbZ' & ~^@Y@ [Aā~Y' YZā \ 'āb' 'āAYā~Z' & YāZābāā~Y' Zā  
Y' Z' Y^ & ZāAY | Y' āY' āZÉ

**- I 7CQGBCLAC - ?JJ 8SQNCLQGML**

ŁA@Zā~^āā' YāZā' | 'āāZā' | @^ā & Zābā' āAbāZāZā' Zā' ZZāY' Zā' Yāāā@Z' \* \ 'ŌZāAYāā & Z' YZ' āA^aAbāZā  
Y^ & & \ 'ā' b' [Ab^A@Zā~Z' YbA^bāZ' @Zā' ZZābā' ^@' 'āābAb^Aa' YāZb [DAZ' Y' \ 'b' [DAYāZa@Z' Yā^āY' Zā' \* \ 'ZbÉA  
T' Z' \ 'ā' āZ' 'ā' \ ~b' 'āA^aDA^@AY' āb' ā' ZZA' Z' āZāY@Za^@DAbāZāYāāY^ & & \ 'ā' b' [AY' YāāZ' YZAb^A  
@Z' & ^ | YāAa@^ & AbāYbAY^ & & \ 'ā' b' [ÉAbā' āAYb' 'āāY' YāāāA^@āZ' ~Y@Yb' 'āA^aAbāZāAb \ ZZābā@^ & AbāZā  
@Z' & ^ | ZāY' ZāYāYāāA^@AYā~Z' ^Z^A^Ab' & ZDA' YabZ' @ { 'ā' YāAbāZāAb \ ZZābā' āZā' ā' YāZāb^@Zb \ @āÉA  
N^āZ' b' 'āāAa^@A@Zb \ @ā' āāA & Y [AYZā~Z' Y' a' ZZÉACE' āYā' YāA~ZāYab' ZāA { 'āāY~ā [ÉATb \ ZZābāA  
{ 'ā' AY@Zāā \ ā~ZāZZA@^ & AbāZā@Zā' ZZāY' ZāYāYāāā^āZā' | 'ā' bYb' 'āA~@' | 'āZāZā' 'āYā [A  
Uā' | Zāā' b' [Aā^ \ 'ā' āāZ \ 'Ō' 'āāAbāZā~Z' ^Z^A^AbāZ' ^Aā \ ā~Zāā' 'āÉA Ū @' bbZāā^b' a' Y' Yb' 'āA^aAbā' āA  
Y' Yb' 'āA & Y [AYZā~@^ | ZZZAb^Aā' āÉāZ@A~Y@ZābāBÉā \ Y@Z' YāāBā' aAbāZāAb \ ZZābā' āAYAZZ~ZāZZābÉ

**. I 9CPKGL?RGLM MD - MSQGLE (MLRP?AR**

ŠZ~Z' YbZ' ZAYāZÉ^@AāZ' ^ \ 'āā | 'āYb' 'āāA^aAbāZāZ' & āA^aAbāZā^ \ 'ā' āāY' āb@Y' YbA & Y [A@Zā' ābā' āA  
bāZāZ' & 'āYb' 'āA^aAbāZā^ \ 'ā' āāY' āb@Y' YbAYāZāZā' & Z' YbZāZ' & ^ | Yā^aAbāZāAb \ ZZābā  
a@^ & AbāZāZā' ZZāY' ZāYāāDA' āYāY' YāA~ZāYāb' ZāDA' YāZā^āāA^aA | 'ā' bYb' 'āA~@' | 'āZāZā' 'āYā [A  
Uā' | Zāā' b' [Aā^ \ 'ā' āāÉA Ū @' bbZāā^b' a' Y' Yb' 'āA^aAbā' āAYb' 'āA & Y [AYZā~@^ | ZZZAb^Aā' āÉāZ@A  
~Y@ZābāBÉā \ Y@Z' YāāBā' aAbāZāAb \ ZZābā' āAYAZZ~ZāZZābÉ

**/ I : LGTCPQGRW 5PM@?RGLM**

Uā' | Zāā' b' [A~@^Y' Yb' 'āā' āAYAa^@ & Yāā^b' YZAb^AbāZāAb \ ZZābAbāYbābāZāY' Yb' | b' [A' āA' \ Zāb' 'āā' āA  
\ 'āY' YZ~bY' YāZāYāZAbāYbDA' aY' ā' ā' \ ZZA^@A' aA^bāZ@A' āY~@^~@' YbZAYZāY | ^@Aa^āā { āDA & ^@Zā  
āZ' | Z' ZāY' Yb' 'āA & Y [AYZAbYāZāDA' āYā \ Z' 'āā' ~^āā' YāZā \ ā~Zāā' 'āA^@A^Z' ] ~\ 'āā' 'āAa@^ & AŌ^āāA  
NY@^@āA Uā' | Zāā' b' [ÉAUā' | Zāā' b' [A~@^Y' Yb' 'āā' āA^@AYāā~Z' Y' a' Yā~Z' ^Z^A^Ab' & Z' YāZāY' Yā' ā' Yā \ ZZā  
ā \ YāA@Zāb@' Yb' 'āāAYāZāZā' YāA^aAbāZā^~^@b' ā' b' [Ab^A~Y@b' Y' ~YbZā' āZ' ] b@YE' Y \ @' Y \ 'āY@AY' Yb' | 'b' ZāA  
^@A^Z' | ZābāDAb^A~Z' @a^@ & A' āAbāZāāY & Zā^aAbāZāUā' | Zāā' b' [DAb^AāZ' | ZāYāYāYā^āā' YZ@A^aAYāāb \ ZZābā  
^@āYā' ] Yb' 'āDA^@Ab^A@Zā' ZZā' āAUā' | Zāā' b' [Aā^ \ 'ā' āāÉAŁZ' b' 'āYāā [DAāb \ ZZābāA { 'ā' āAY | ZāY' Zāā  
~āY' ZZā^āAUā' | Zāā' b' [A~@^Y' Yb' 'āāA^@AYā~Z' ^Z^A^A & ^@ZābāYāÉGAYāāZ' Y' b' | Zā { ZZāā { 'āāY' Zā  
ā' & 'bZZā' āAbāZā^~b' 'āāAbāZ' [A & Y [AY' Zā^@Aā^ \ 'ā' āāA^@AbāZāA^āā { 'āā [ZY@ÉAT~Z' Y' a' Y' Yāā [DA

bā^āZāāb\ZZābā { ā^AY@Z@Z\* \ '@ZZAb^Aā | ŽA'āAbāZ@Zā'ZZāYŽAāYāāAa^@AbāZāAa^āā { 'āā [ŽY@A  
{ 'āāYŽAYāā'āāZZAb^AYA@^&AY [AbāZARaa'YŽA^aŠZā'ZZāYŽAŌ'aŽAYabZ@AYāābāZ@A@Zb \ @ā'āā  
āb\ZZābāAāY | ŽAbāZā^~^@b \ ā'b [Ab^Aā'āāA \ ~ÉA Ū @'bbZāAā^b'a'Yyb'^āA^Abā'āAYyb'^āA & Y [AYŽA  
~@^ | 'ZZZAb^Aā'āēāZ@A~Y@ZābĀāBÉā \ Y@Z'YāĀāBA'aAbāZāāb\ZZābā'āAYAZZ~ZāZābÉ

**01 ) CDCPPCB 8SQNCLQGML**

ŃZāZ@ZZAT \ ā~Zāā'^āA'āAa^@AYAā~ŽY'a'YA~Z@'^ZA^aAb' & ŽAYāZA'āAYaA^@ & YāAā^b'YŽAb^AbāZā  
āb\ZZābAbāYbAbāZAYyb | 'b [A'āA\* \ Žāb'^āA'āA \ āYŸYŽ~bYŸāZAYāZA | Ž@ [AāZ@'^\ āÉAT \ ā~Zāā'^āA  
{ 'āā@Z & Y'āAZZāZ@ZZA \ āiZāāZ'āY'~ā'āY@ [AYyb'^āāAYāā'āāZZAY@ZāA^bAY^&~āZbZZAYāZÉ^@A  
\āiZāāY^āb'ā\ZZA'āY~@^~@'YbZAYŽāY | '^@Aa^āā { āÉAŁZZ'b'^āYāA | 'āYyb'^āāA^AbāZāATb\ZZābA  
N^ZZA { 'āā & ^ābAā'āēZā [A@Zā \ ābA'āAā \ ā~Zāā'^āA^@AZ} ~ \ āā'^āAa@^&AbāZāUā' | Ž@ā'b [ÉAŌāAYZZ'b'^ā  
b^Aā^\ā'āā@Zāb@'Yb'^āāA^bZā \ āZZ@AUā | Ž@ā'b [A~@^Yyb'^āDAāb\ZZābā { ā^āY | ŽAYŽZā  
~āYŸZāA^āNžāZ@ZZAT \ ā~Zāā'^āAa^@AYA~Z@'^ZA^aA & ^@ZAbāYāÉGAŸ^āāZŸ \ b' | ŽA { ŽZāā { 'āā  
ā^bAYZā~Z@ & 'bbZZAb^A@Zā'ZZā'āMŽ@āZbAŌYāāA^@AYā [A^aaAYY & ~ \ āA~@^~Z@b'ZāAYZ & 'ā'ābZ@ZZA  
Y [AbāZARaa'YŽA^aŠZā'ZZāYŽAŌ'aZāA^@AbāZāAa^āā { 'āā [ŽY@EAŠ'ā'āāŌ \ ā'^@āAYāZATZā'^@āA  
{ Yāb'āāAb^Aā' | ŽA^āAYY & ~ \ āA { 'āāYŽA@Z\* \ '@ZZAb^A & ŽZbA { 'bāAbāZāN'@ZŸb^@A^aAŠZā'ZZāYŽAŌ'aZā  
a^@AYA^āZÉ^āÉ^āZ@Z | Ž { A^aAā'āēāZ@AY^āZ \ YbAa'āZÉA Ū @'bbZāAā^b'a'Yyb'^āA^Abā'āAYyb'^āA & Y [A  
YZā~@^ | 'ZZZAb^Aā'āēāZ@A~Y@ZābĀāBÉā \ Y@Z'YāĀāBA'aAbāZāāb\ZZābā'āAYAZZāā'





ĀĒĒBĀŸ\ ā'āžāāZY[āĒĀŌāĀŸYāžāā^āāž@'^\āā&'āŸ^āz\ŸbDAbāžĀUā'|ž@ā'b[A@žāž@|žābāžĀ@'áābA  
b^ĀŸŸbA^āā@ž~^@bāāā^A&Ybbž@A{āžāAbāž[AŸ@žāā\Ÿ&'bbžžĒĀpāžĀUā'|ž@ā'b[A{āā'ā|žāb'áYbžA  
Yāā@ž~^@bāĒ

ŌāĀŸYāžāA{āž@žAbāž@žA&Y[AŸžĀYA{bāžāāAb^ĀYāĀYāāžāžA|^āYb^āDA^@A'āĀŸYāžāA{āž@žĀYA  
āb\žžābA{ā^ĀYžā'ž|žāāĒāžāāYāĀYžžāAbāžĀ@žŸ~žābA^āYā^bāž@Aāb\žžāb'āā&'āŸ^āz\ŸbA  
@ž\*\žābāAbāYbAbāžĀUā'|ž@ā'b[A~\@ā\žAbāžĀŸYāžāž|žābā^āāāĒāžĀ'āA\ā{āā'āāAb^Aa\@bāž@A

( I &BKGLGQRP?RGTc - C?PGL E

ł áAYZ& 'á'áb@Yb'| ŽAâŽY@'ááA'áAYAa^@ & YáAâŽY@'ááAÿ^áZ\ŸbŽZAY[A^áŽAĀ^@Ab { ^BATb\ZZábA

ÉÉÁ pāŽĀ^@áYá ]Yb^á`āAYZ| 'ā^@A'āA'ā | bZZAb^AYbbŽāZAbāŽAāŽY@'āáÉ

ĐÉÁ pāŽĀ^@áYá ]Yb^á`āA~@Žā'ZZābAYáZāŽ}ŽŸ\|b'| ŽĀ^aa'ŸŽ@āA { 'āāA\ā\Yāā [A^aa'Ÿ'Yāā [A  
@Ž~@ŽāŽābAbāŽĀ^@áYá ]Yb^á`āAYbAbāŽAāŽY@'āáDAYābā^āāAYZZ'b^āYāA^aa'ŸŽ@āAYáZĚ^@A  
&Ž&ŸŽ@āA^aAbāŽĀ^@áYá ]Yb^á`āA&Y[AŸŽĀ'ā | bZZAb^AbāŽAāŽY@'āáÉ

€ÉÁ pāŽĀ^@áYá ]Yb^á`āA { 'āāYŽAYāāŽZAb^Aā\Ÿ&'bAYA { @'bbŽāAābYbŽ&ŽābAYŸ^ \ bAbāŽĀ  
'āŸ'ZZābAYáZĀ'bāA&Ž&ŸŽ@ā'ā | ^à | Ž&ŽābAbāYbA { 'āāYŽĀ \ āZZAZ \ @'āāAbāŽĀāŽY@'āáÉA  
RbāŽ@ { 'āŽDAbāŽĀ^@áYá ]Yb^á`āAYāAāŽY@'āáA { 'āāA^āā^ { AbāŽĀ~@ŸŸZ \ @ŽāA^ \ bā'āŽZĀ'āA  
TŽŸb^āA000DAŌÉ

**, I 8RSBCLR (MLBSAR - C?P6LE 5PMACBSPCQ**

pā'āAāŽŸb^āAZŽāŸ@ŸŸāAbāŽĀ^@&YbA^aAbāŽĀāŽY@'āáAYāZAbāŽĀ@'āābā^aAbāŽĀ@Žā~^āZZābA'āAYA  
āŽY@'āáA~@ŸŸāāAŌbAYāā^A'āŸā\ZZā'āa^@&Yb^á`āAYŸ^ \ bA { 'bāŽāāŽāDAYZ| 'ā^@āDAbāŽĀZZŸŸ'ā^āÉ  
&Yāā'āA~@ŸŸāāDAYāZAbāŽĀŸ^&& \ ā'ŸYb^āA~@ŸŸāāÉ

**flI - C?P6LE +MPK?R**

YÉÁ ŁAā'āāŽĀ@ŽŸ^@ZĀŸ^āā'āb'āāA^aA { @'bbŽāAā^bŽāDA^@A^bāŽ@A&Žbā^ZāAāŽāŽŸbŽZĀ  
Ÿ [AbāŽĀTb\ZZābAN^āZ\ŸbAŁZ&'ā'āb@Yb^@A { 'āāYŽĀ&YZZĀ^aAYāāāŽY@'āáāÉA  
pā'āA@ŽŸ^@ZA { 'āāYŽĀ@ŽbY'āŽZĀa^@A^āŽĀ&^ābāA^āā^ { 'ŽŸ^@Ÿ

āDAYáZAYā

áÉÁ Ł äáA~@^ŸŽŽ\|@YáA\* \Žáb^ááAY@ŽAā \YáŽŸbAb^AbāŽAá^áYāAZŽŸ^á^áA^AbāŽAŸTb \ZZābA  
N^āZ \ŸbAŁZ& ^á^āb@Yb^@É

ŁI 8RSBCLR 7GEFRQ

ŌāAbāŽAāŽY@^ááAā^b^a^ŸYb^áAāŽbŽ@AYāZAYáY^áAYbAbāŽAŸŽá^áá^áA^AbāŽAāŽY@^ááDAbāŽA  
@Žā~^āZZābA { ^āAYŽAYZ| ^āZZAb^aYbAāÉāŽAāYāAbāŽA@^áābāAā^ābZZAYŽā^ { ÉATb \ZZābāA  
{ ^bāAYā [A\* \Žáb^ááAYŸ^ \bAbāŽ^@A@^áābāAY@ŽAāŸ^ \@YáŽŽbAb^AY^ābYŸbAbāŽAŁāā^ŸYbŽA  
NŽYāA^ATb \ZZābāÉ

- YÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^AYŽA^ | ŽāAYāAŽ} ~āYāYb^áA^AbāŽAŸ^āZ \ŸbA  
ā [ābŽ&AYāZAYāY@áŽāBÉ
- YÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^Aa@ŽZZ^&Aa@^&AāY@Yāā&Žāb^@A@ŽbYā^Yb^áAY [A  
^bāŽ@āA^ā | ^ā | ŽZA^āAbāŽAā^b \Yb^āÉ
- YÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^AbāŽA \āŽA^aAYāAY | Y^áYŸāŽA^ābŽ@āYāYāZ} bŽ@āYāA  
ā \~^@bāāŽ@ | ŸŽā^āAŽŽY^ááA { ^bāAbāŽAYabŽ@ &YbāA^AbāŽA^āY^ZZāBÉ
- ZÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^A^YāŽŸbAb^AYA&Ž&ŸŽ@A^aYATb \ZZābAN^āZ \ŸbA  
M^Y@ZA^@A@ŽYā^āA^aA^aa^Ÿ^YāA^@A~Ž@ā^āYāY^āāā^ŸbA^a^ābŽ@ŽāBÉ
- ŽÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^AbāŽA~@ŽāŽāŸŽA^aYāAYZ| ^ā^@A^aA^āÉāŽ@A  
Ÿ^ā^ā^āáÉ
- aÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^AYŽA~@ŽāŽābAbā^ \^áá^ \bAbāŽAāŽY@^ááY \bA^bA  
Z \@^áAbāŽAZŽā^ŸŽ@Yb^áāA^AbāŽATb \ZZābAN^āZ \ŸbAŁZ& ^á^āb@Yb^@ÉM^Y@ŽÉ
- áÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^Aaeā^ { AYāāA^āa^@ &Yb^áA~@ŽāŽābZZAYáY^āābA  
ā^&ÉāŽ@AYāZAb^A | Ž { A~Ž@b^āŽābA&YbŽ@YāāAā \~^@b^áAbāŽAYāŽAYáY^āābA  
ā^&ÉāŽ@É
- āÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^A~@ŽāŽābA~Ž@b^āŽābA^āa^@ &Yb^áAYāZAbāŽA  
^āa^@ &Yb^áA^aA { ^bāŽāāŽāAŽ} Ÿā \Z^ááAYāY@ŸŸbŽ@A { ^bāŽāāŽāAb^A  
ā \ŸābYāb^YbŽAā^āÉāŽ@AYāZAYāZAb^A@Žā~^āZAb^AbāŽAYāY@áŽāYāY^āābA  
ā^&ÉāŽ@ÉA^pā^ā^āYā \ZZāA~@^~^ā^áA\* \Žáb^áāAb^AYŽAYāæZZA^a^AbāŽ@āA  
^ā | ^ā | ŽZA { ^bAbāŽAŽ} ŸŽ~b^áA^aAYZ| ^ā^āÉ
- ÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^Aa@ŽZZ^&Aa@^&AāY| ^áA^@@ŽāŽ | YābA~Ž@ā^āYāA  
ā^āb^@ [AZ^āŸ \āāZZA^AY^āā^ZZ@ZZAZ \@^áAbāŽAY^āZ \ŸbA~@^ŸŽāāÉA^pāŽA  
Tb \ZZābAN^āZ \ŸbAŁZ& ^á^āb@Yb^@A { ^āAZŽbŽ@ &^āŽA@ŽāŽ | YāŸŽÉB Y b^ā ā \ŸābYāb

ŮāĀŸŸāžā'á | ^á | 'ááA & ^@žAbāŸā^āžāžā~^āžžābDAYATb \ žžābAN^āZ \ ŸbA  
ŁZ & 'á'āb@Ÿb^@A & Y [AZŽŸ ŽžAb^ĀŸ^āž \ ŸbAbāžāžŸ@'ááāāž~Ÿ@Ÿbžā [A^@āā^'ābā [É

Ůāž@žAb { ^A^@A & ^@žĀŸŸāžā'á | ^á | 'ááĀŸ^ & ^āĀŸŸ \ @žāŸžāA^@AbāžāāŸ & žA  
āb \ žžābĀāBAYžA~žāž'ááā' & \ ābŸāž^ \ āā [DAbāžATb \ žžābAN^āZ \ ŸbAŁZ & 'á'āb@Ÿb^@A  
& Y [AZŽŸ ŽžAb^ĀŸ^āž \ žŸbžAbāžāžŸ@'ááA^āā \ ŸāŸŸāžāDA^@āžŸ@Abāž & A  
āž~Ÿ@Ÿbžā [É

**žI < GRLCQQCQ**

pāžA@žā~^āžžābā'āA@žā~^āā'ŸāžAa^@Ÿ@Ÿāá'ááAa^@A { 'bāžāāžāŸ~žŸ@'ááA^āA  
ā'āÉāžAŸžāŸāAŸbAbāžāžŸ@'ááÉATb \ žžābāA { ā^ĀŸžā'ž | žAbāž [AāŸ | žĀŸžāAbāžA  
@žŸ'~žābA^@Abāžāžā~^āžžāb'āA & 'āŸ^āž \ ŸbDAYāžAbāžATb \ žžābAN^āZ \ ŸbA  
ŁZ & 'á'āb@Ÿb^@A & Y [AYāā'ā | 'bžA { 'bāžāāžāAb^ĀŸ~žŸ@ŸŸAbāžāžŸ@'ááÉĀŮābāžā  
ž}Ÿž~b'^āŸāž | žābAbāŸbAYā { 'bāžāā'āA \ āŸŸāžAb^ĀŸbžžāžAbāžāžŸ@'ááDAbāžā { 'bāžāā  
& Y [A { @'bžA^@A@žŸ^@ZAYābŸž & žābAYāZāž'āŸ \ āāAbāžābŸž & žābA { 'bābāžATb \ žžābA  
N^āZ \ ŸbAŁZ & 'á'āb@Ÿb^@AŸžā^@žābāžāŸāžž \ āžžāžŸ@'ááÉpāžATb \ žžābAN^āZ \ ŸbA  
ŁZ & 'á'āb@Ÿb^@A'āAb^ĀŸžā^@'žžābāžāābāŸāA^āžāĀÉBAY \ ā'āžāāZY [ĀŸžā^@žAbāžA  
āžŸ@'ááDA^@Abāžā~žāžāā'ābžāž'āāAb^@^ | žžā'āa^@ & Ÿb^@āDA { āžbāž@'āA~žāā^ā  
^@A'āA { @'b'āāÉpāžATb \ žžābAN^āZ \ ŸbAŁZ & 'á'āb@Ÿb^@A & Y [A@žŸā^āŸŸā [Āā' & 'bābāžā  
āŸ^~žĀŸāžAb' & žAZž | ^bžžAb^A { 'bāžāābŸbž & žābāÉ Ů' bāžāāžāŸ@žAb [~ŸŸāā [AYāēžžA  
b^ĀŸ^ & & žābA^āā [A^āAbāžāž | žābābA~ž@b'āžābAb^AbāžāŸāŸ@žāžāā^@AbāžāŸāŸ@ŸŸbž@A^ā  
bāžā~ž@ā^āÉ

**žI .LDMPK?RGML**

ŮāAYāāŸŸāžāžAbāžā~^ĀŸžž \ @žāA { 'āāA^bAYžā \ ŸāžŸbAb^Āā' & 'b'āāA \ āžāA^ā'āa^@ & Ÿb^āÉA  
Ůāa^@ & Ÿb^āA { 'āāŸ^āā'ābA^a^@ŸāŸāžA { @'bbžāŸŸŸ^ \ ābāDA'āŸžžāb@ž~^@bDAYāZAYā [A  
^bāž@A & Ÿbž@'ŸāZ'@žŸbā [A@žāŸbžžAb^Abāžā'āŸžžābÉRbāž@A'āa^@ & Ÿb^āA & Y [AYāā^ĀŸžA  
Ÿ^āāžž@žžAYāžA { 'āāŸ^āā'ābA^a^ā \ ŸāAbā'āāāŸŸāžāŸāŸāžāž~^@bāŸāžA  
Ÿ^Ÿ \ & ābŸāb'Ÿā'āa^@ & Ÿb^āāÉpāžATb \ žžābAN^āZ \ ŸbAŁZ & 'á'āb@Ÿb^@EM^Y@Z  
NāŸ@~ž@ā^āA & Y [A@žŸā^āŸŸā [Āā' & 'bābāžāŸāŸ^~žA^a^'āa^@ & Ÿb^āāŸ^āāžž@žžA'āAbāžā  
āžŸ@'āāÉ

ŮāAZ \ @'ááAbāžāŸ^ \ @žāA^@AbāžāžŸ@'ááAbāžAŸŸbāŸŸŸŸ@A \ bAbāŸbAbāžāžā~^āžžābA  
āb \ žžābA'āA@žā~^āā'ŸāžAa^@Ÿā [A^bāž@A | ^āŸb^āāBAbAbāžATb \ žžābAN^āžžDA'ba'Abāžā  
@žā~^āāŸ'ā'b [A^AbāžATb \ žžābAN^āZ \ ŸbAŁZ & 'á'āb@Ÿb^@EM^Y@ZAb^A & ŸāžĀŸAY  
žžbž@ & 'āŸb^āA^@žā~^āā'Ÿ'ā'b [A^@A@žŸ^ & & žāžAbāžā'āž'āāāŸāžAYāā'āāA^@A  
@žŸ^ & & žāžAbāžāž'āŸ'~ā'āŸ@ [AYŸb^āDAYāŸ~@^@~@ŸbžžAa^@ā \ Ÿā | ^āŸb^āāÉ

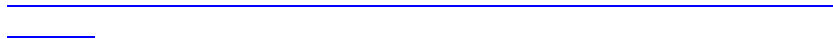
**! | &BTGQMPQ**

pāžA@žā~^āžžābAYāZAYāb \ žžābA { ā^ĀŸžā'ž | žāāāžāžāŸāŸŸžāAbāžāžŸ'~žābA^a  
bāžA@žā~^āžžāb'āA & 'āŸ^āž \ ŸbA & Y [AāŸ | žĀāžAYZ | 'ā^@A^@Abāž@ŸĀŸ^ā'āā~žāžābA  
ŸbAbāžāžŸ@'ááÉĀŮābāžāāb \ žžābA { ŸābāAb^ĀāŸ | žĀŸāŸZ | 'ā^@A~@žāžābDAbāžāāb \ žžābA  
& \ ābāā^b'ā [AbāžATb \ žžābAN^āZ \ ŸbAŁZ & 'á'āb@Ÿb^@A^@Abā'āAŸŸbā'āA { @'b'āāA^āŸbž@A  
bāŸāAb { ^āāÉBAY \ ā'āžāāZY [āŸžā^@žābāžāžŸ@'ááÉpāžAYZ | 'ā^@A'āā'ābžāžžAb^ĀŸžA  
^aAZ'@žŸbAYāā'ābŸāŸžAb^Abāžāāb \ žžābAYžā^@žDAZ \ @'āāDAYāZAYābž@AbāžāžŸ@'áāŸāžA  
bāž@žā^@žāāŸāŸāŸ'ā | 'bžžAb^ĀŸbžžāžAbāžāžāb'@žā~^@b'āA^@AbāžāžŸ@'áāŸbā { ā'ŸāA  
'āa^@ & Ÿb^āA'āA@žŸž | žžāžž}Ÿā \ ž'āāAZž'Ÿž@Ÿb^āāBÉpāžāAb \ žžābā'ā | ^ā | žžAY@žā  
@žā~^āā'ŸāžAa^@~@žāžāb'āābāž'@A^ { āā^ā^@ & Ÿb^āDAYāā { ž@'āā\* \ žāb^āāŸāēžžA  
ŸāžA~@žāžāb'āā\* \ žāb^āāÉpāžāžā^@žDAYZ | 'ā^@āŸ@žābA~ž@ & 'bžžAb^āā~žŸŸAYbAYā  
āžŸ@'áāA^@A~@^ | žžAYāā { žāAb^Abāžāāb \ žžābA { āžāŸAYāb \ žžābA'āŸāēžžAYā  
\* \ žāb^āāÉŁ.āāā^bžābŸāžāŸAYZ | 'ā^@āZ \ @'āābāžāžŸ@'áāA & \ ābAYžAb \ @žāžA | ž@A  
b^AbāžATb \ žžābAN^āZ \ ŸbAŁZ & 'á'āb@Ÿb^@EM^Y@ZANāŸ@AYbAbāžāžāZāA^AbāžāžŸ@'áāÉ  
ŁAāb \ žžābāāā \ āžāžāžŸbAYāŸZ | 'ā^@A { ā^ĀŸŸāŸŸbžžāžAYbAbāžāžāŸāžž \ āžžAZŸbžŸAYāžA  
b' & žAa^@AbāžāžŸ@'áāŸžŸŸ \ āžžāžŸŸ [āA { 'āāA^bA \ ā \ Ÿāā [ĀŸžA~ž@ & 'bžžAZ \ žAb^Abāžā  
āŸāžž \ ā'āāŸŸ^āā'ŸbāA^ĀŸāŸZ | 'ā^@É

"I 8S@QRGRSRGML MD 2CK@CPQ/6SMPSK

-I &NNC?JQ

fl 4TCPT6CU



YÉA Łaa'@&AbâŽŸ^âZ\ŸbAZŽŸ'ã'^âAYâZAbâ\ãAZŽâ[AbâŽAY~~ŽYàì  
ÝÉA P^Z'a[AbâŽAY^âZ\ŸbAZŽŸ'ã'^âì  
ÝÉA ŠŽb\ @âAb^AbâŽA^@'á'âYâATb\ZZâbAN^âZ\ŸbAŁZ&'â'âb@Yb^@ÉM^Y@ZAa^@AYAâŽ { A  
^@A~Y@b'YâA@ŽâŽY@'âáì  
ZÉA ŠŽaŽ@AbâŽAYŸãŽAb^AYAâŽ { ATb\ZZâbAN^âZ\ŸbAŁZ&'â'âb@Yb^@ÉM^Y@ZAĀ&YæŽA  
\~BAa^@AYAâŽ { A^@A~Y@b'YâA@ŽâŽY@'âáì  
ŽÉA R|Ž@b\ @âAbâŽAY^âZ\ŸbAZŽŸ'ã'^âÉ



aÉA pāŽAāb \ ZŽābā' āAŽāb' bāŽZAb^AYŽA~@ŽāŽābAbā@^ \ āā^ \ bAbāŽāāŽY@' āāAY \ bāā^bAZ \ @' āāAbāŽA  
ZŽā' YŽ@Yb' ^āā^AbāŽA T b \ ZŽābAN^āZ \ YbAŁZ & 'ā' āb@Yb^@ÉM^Y@ZÉ  
áÉA pāŽAāb \ ZŽābā' āAŽāb' bāŽZAb^A | Ž { A~Ž@b' āŽābA & YbŽ@' Yāā' ā | ^ā | ŽZā' āAbāŽAYāŽÉpāŽAāb \ ZŽābā' āA  
Žāb' bāŽZAb^A~@ŽāŽāb~Ž@b' āŽābā' āā^@ & Yb' ^āAYāZAbāŽA' āā^@ & Yb' ^āā^A { 'bāŽāāŽāDAŽ' } Yā \ Z' āāA  
YāY@YbZ@A { 'bāŽāāŽāAb^Aā \ YābYāb' YbŽAā' āēāŽ@AYāŽÉpā' āā' āYā \ ZŽāA~@^~ā' āāA \* \ Žāb' ^āāA  
b^AYŽAYāēŽZ^AAbāŽA@Žā~^āZŽābAYāZA { 'bāŽāāŽāē  
āÉA pāŽAāb \ ZŽābā' āAŽāb' bāŽZAb^Aa@ZŽZ^A & Aa@^ & AāY | 'āā' @ŽāŽ | YābA~Ž@ā^āYāā' āb^@ [AZ'āY \ āāŽZā  
^@AY'āā' ZŽ@ZŽAZ \ @' āāAbāŽAYāZ \ YbA~@^YŽāāÉAAbāŽA T b \ ZŽābAN^āZ \ YbAŁZ & 'ā' āb@Yb^@A { 'āā  
ZŽbŽ@ & 'āZ@ŽāŽ | YāYŽBÉ  
'ÉA pāŽAāb \ ZŽābā' āAŽāb' bāŽZAb^A { @' bāŽāAZ^Y \ & ŽābYb' ^āA^AbāŽA^ \ bY^ & ŽāAAbāŽAY^āZ \ YbA  
āŽY@' āāé  
áÉA pāŽAāb \ ZŽābā' āAŽāb' bāŽZAb^A & YāēŽAY A { @' bāŽāAY ~ŽYāA^AbāŽAZ'āY' ~ā' āY@ [AZŽY'ā' ^āA { 'bā' āā' | ŽA  
ĀGBAY \ ā' āŽāāAZ Y [āA^AbāŽAYbŽA^Aā^b' ā' Yb' ^āA^AbāYbAZŽY'ā' ^āÉAUā | Ž@ā' b [AZ'āY' ~ā' āY@ [A  
Yb' ^āāAY@ŽAY ~ŽYāŽZAb^AbāŽANŽYāA^A T b \ ZŽābāÉ

pāŽAĪO^āāNY@^āāAY^ & & \ ā' b [AŽāY^ \ @YāŽāAbāŽAŽ~^@b' āāA^aAY@' & ŽāAY [A@ŽY' ~ŽābāA^aYŽāY | ^@A  
Y^āā' ZŽ@Zā & 'āY^āZ \ YbAb^AUā' | Ž@ā' b [A^aa' Y' YāāYāZA' aAY ~@^~@' YbŽDA^ \ bā' ZŽāY { AŽāa^YŽ & ŽābA  
Y \ bā^@' b' ŽāÉA T ^ & ŽāDA@ŽY' ~ŽābāA^aYā' bāŽ@Ab \ ZŽāb' āA & 'āY^āZ \ YbAY@ŽāāŽā' bYābAb^A@Ž~^@bAb^A  
Uā' | Ž@ā' b [A^aa' Y' YāāAYŽY \ āŽAbāŽ [AY@ŽāY^āYŽ@āŽZAbāYbAbāŽ [AbāŽ & āŽā | ŽāA & Y [AYŽAYY \ āŽZ^A^a  
~^ā' Y [A | ^āYb' ^āāDAā \ YāAYā \ āZŽ@YāZAZ@' āā' āāÉAObā' āA' āAbāŽAYŽābā' ābŽ@ŽābA^Abā' āāY^ & & \ ā' b [AbāYbAYāā  
'ābŽ@~Ž@ā^āYā | ^āŽāYŽA^āāŽāāŽāAYāZ^AbāŽ@AYYbāA^a | ^āŽāYŽAY@Z@Ž~^@bZŽAb^AUā' | Ž@ā' b [A^aa' Y' YāāÉA  
b^AŽāY^ \ @YāŽAbŽ~^@b' āāDA' bā' āAbāŽAUā' | Ž@ā' b [ 'ā~@Yb' YŽAb^AYZZ@Žāā & 'ā' @A~^ā' Y [A | ^āYb' ^āā  
@ŽāYbZŽAb^AbāŽā' āY' ZŽābAY [AYā~Ž@ā^ā@Z~^@b' āāYŽ' āāAbāŽA@ŽY' ~ŽābA^a' ābŽ@~Ž@ā^āYā | ^āŽāYŽA^@A  
^bāŽ@AYYbāA^a | ^āŽāYŽAbā@^ \ āā' āā^@ & YāA & ŽYāé

pāŽA { ŽāaY@ŽA^aAZHYāA & Ž & YŽ@A^a^ \ @AY^ & & \ ā' b [A'āA] Ž [A' & ~^@bYābÉAŁbAb' & ŽāDAY^ & & \ ā' b [A  
& Ž & YŽ@āA^āAYāZ^A^aAYY & ~ \ āA & Y [AāŽZAYāā' ābYāYŽÉO^āāNY@^āāAŽāY^ \ @YāŽāAYāāAb \ ZŽābAb^A  
^aaZ@AāŽā~AYāZAYāā' ābYāYŽAb^A^bāŽ@āA' āāŽZÉpāŽ@ŽA & Y [AYŽAb' & ŽāA { āŽāAb \ ZŽābAY@ŽāŽā' YbYābA  
b^AāŽā~A^ \ bA^aAY^āYŽ@āAbāYbAbāŽ [A & Y [AaYŽAZ' āY' ~ā' āY@ [AYYb' ^āA^@AYā~^ā' Y [A | ^āYb' ^āā \ YāAYā  
 \ āŽZ@YāZAZ@' āā' āāAYbAbāŽAb' & ŽA^AbāŽA' āY' ZŽābÉUā' ā' āŽA~^ā' Y [A | ^āYb' ^āāAYāā^bAYŽA^ | Ž@ā' ^āēŽZDA  
a^@A & 'ā^@A | ^āYb' ^āāDAYāZŽ \ Yb' ^āYāYāZÉ^@AāŽYbāAY^ā | Ž@āYb' ^āē' ābŽ@ | Žāb' āA & Y [AYŽA@Ž' \* \ @ZŽA  
YāAYāAYābŽ@āYb' | ŽAb^AZ' āY' ~ā' āY@ [AāYāYb' ^āāÉACE^@AYZZ' b' ^āYāA' āā^@ & Yb' ^āA@ŽāY@Z' āāAbāŽA@^AZA  
TY & Y@' bYāAS^ā' Y [DAā^Ab^Aābb~ĪÉā' bŽāÉY \ ÉZZ \ ÉZZYā^āāb \ ZŽābāÉ~YāŽāÉY^ & & \ ā' b [ÉābYāZY@ZāÉā^AZÉA  
āY & Y@' bYāE~^ā' Y [AÉ

fl .LRCPGK 8SQNCLQML

YÉA Ōābž' & Aā\ā~žāā'āA&Y[AÝŽA' &~āžžIÀÈBAb^Ažāā\@žābāžāYāžb [AYāZA  
 {žāāEÝž'āáA^aA&ž&Ýž'āā^aAbāžAUA'|ž'ā'b [AY^&& \ā'b [A^@A~@žāž' |Yb'^āA^aA  
 Uá|ž'ā'b [A~@^~ž'@I^@AĐBA'āAbāžAāb\žžābA~^āžžāYāA^āá^'āáAbā@žYbA^aA  
 Z'ā@\~b'^āA^aDA^@A'ābž'@až'@žāÝžA { 'bāDAbāžAā^@ & YāA^~ž'Yb'^āāA^aAbāžA  
 Uá|ž'ā'b [É  
 ÝÉA Ń\@'āáAbāžA'ābž' & Aā\ā~žāā'^āDAYAāb\žžābAāāYāāYžAZžā'žžAYÝžāāAb^A  
 bāžA@žā'žžāÝžāYāāāYāžÉ^@Ab^AbāžAÝY&~\āā'āÝā\Z'āáYāYāāžāBAYāžÉ^@A  
 b^AYāāA^bāž'@AUá|ž'ā'b [AYÝb|'b'žāA^@A~@'|āžāžāA^@A { ā'YāAbāžAāb\žžābA  
 &'āābA^bāž'@ { 'āžAYžāžā'ā'YāžDAYāAbāžANžYāA^aATb\žžābāA^@AYAZžā'āāžžA  
 &Y[Ažžbž'@ &'āžAb^AYžAY~@^~@'YbžÉ  
 ÝÉA ŁAāb\žžābA { 'āāYžāā^b'ā'žžA'āA { @'b'āāA^aAbā'āAYÝb'^āDAYāZAbāžA@žYā'āāA^@A  
 bāžA'ābž'@ & Aā\ā~žāā'^āÉ  
 ZÉA PāžAāb\žžābA&Y[A { 'bā'āAb { ^AĐBAÝ\ā'āžžāAZY[āA^aAbāžA' &~^ā'b'^āA^aAbāžA  
 'ābž' & Aā\ā~žāā'^āDA~ž'b'^āAbāžANžYāA^aATb\žžābāA^@AZžā'āāžžA^@A  
 @ž'āābYbž' &žābÉA PāžA~ž'b'^āA & \ābAYžā'āA { @'b'āāDAYāZA & \ābā'āÝā\žžā  
 ā\~@b'^āāZ^Ý\ &žābYb'^āA^@A'āA^@ & Yb'^āAbāYbAbāžAāb\žžābAZ^žāā^bA  
 ~^āžDA^@Aā^Aā'āāž'@A~^āžāDAYAā'āā'ā'ÝYābA@'āāA^aAā\YābYāb'YāāY@ & Ab^AbāžA  
 āžYābāA^@AāYāžb [A^aA^bāž'@āA^@Ab^A~@^~ž'@b [ÉAŁAZžÝ'ā'^āA^āā\YāA~ž'b'^āA  
 { 'āāYžA@žYāžžAYāZAY^&& \ā'ÝYbžžA { 'bā^bA\āz\žžāY[AY [AbāžANžYāA  
 ^aATb\žžābāA^@AZžā'āāžžÉ  
 ŽÉA Pā'āA'ābž' & Aā\ā~žāā'^āAZ^žāA^bA@ž~āYÝžAbāžA@žā\āY@AY^āz\ÝbA  
 ~@^Ýžāā { ā'ÝāA { 'āā~@^ÝžžA^āAbāžAā^@ & YāāÝāžž\āžDA\~Ab^AYāžA  
 bā@^āāAYATb\žžābAN^āZ\YbANM^Y@ZAāžY@'āāDA'āA@ž' \ 'žžÉA Pā'āA'ābž' & A

Z^Y\ & ŽabYb^aa^@aa^@ & Yb^ababYbabažA^@áYá ]Yb^aaZ^žaa^ba~^āžDA^@A^A  
ā^āāž^@~^āžāDAY^@āab^AbāžāYažb[A^AbāžāUá | Žā^b[A^Y^& & \ā^b[A^@A^bāa  
~^@^~ž^@ÉAŁAZŽY^ā^āā^āā\Yā~žb^'āā { 'āāYžā@žYāžZAYāZāY^& & \ā^YbžZA  
{ 'bā^b\ā\āZ\AZžāY[A^Y[A^bāžāNžYāA^A^Tb\ZZābāA^@AZžā^āāžžÉ

**; GMJ?RGML MD 1?U ?LB 8RSBCLR (MBC**

PažAUā | Žā^b[A & Y[A^āab^b\ bžāY^āZ\YbA~@^Yžžž^āāāYāY^āābAYāb\ZZābAa^@AYA | ^āYb^āA  
^AbāžāTb\ZZābAN^ZZDA@žāY@Zāžāā^A~žāZ^āāY^ | 'āā^b^āYb^ābAY^@' & āYāY@žābDAYāZÉ^@A  
~^@āžžY^b^āAY^@'ā^āA^b\ bA^AbāžāāY & ŽāAYb\Yāā^b\Yb^āÉAN^āZ\YbA~@^Yžžž^āāā & Y[A^Yžā  
Y^@žžA^bA~@^@Ab^DAā' & \ābYāžā^āā [A { 'bāDA^@Aāāā { 'āāY^ | 'āA^@AY^@' & āYā~@^Yžžž^āāā^Aa  
Y^&~\āÉAUā | Žā^b[AZ^āY^~ā^āY@[AYb^āA { 'āā^AbAYžā\YāžYbAb^AYāāžāāZā^Abāžā  
ā@^āZāAbāYbAY^ | 'āA^@AY^@' & āYāYāY@āžā^ā | ^ā | 'āāAbāžāY & Žā^āYžžābāY | ŽāYžžā  
Z^ā & āāžžA^@žžYžžÉ

ŪāžāAb\ZZābAY@žāYāY@āžžāY[Ažžž^YāDAābYbžDA^@Aā^YāY\ bā^@'bžā { 'bāAYA | ^āYb^āA^A  
āY { DAbāžāUā | Žā^b[A { 'āāA^bA@ž^\* \žābA^@YA@žžAb^Aā~žY^āY^āāžž^Yb^āA^@Abāžā  
'āZ | Z\YāāYžžY\āžā^Abāž^@AbYb\āYāAb\ZZābāÉAAbāžāYāāžāžāA^āāžāāZ^AYā~Yž^āā  
~@^YžāāžžA\āžž^AbāžāTb\ZZābAN^ZZDAAbāžāUā | Žā^b[A & Y[A^Y[A^Y | 'āžā^āāY^@~\āA  
Y\ bā^@'bžā^AbāžāZ } 'ābžāžā^AbāžāTb\ZZābAN^ZZAYāZā^āā { 'āā\Yā & Ybžžā { 'āāYžā  
āYāZāžžā^ābž^āYā [A { 'bā^āAbāžāUā | Žā^b[A^Y^& & \ā^b[A^PažAUā | Žā^b[A { 'āāY^~ž^Ybžā  
{ 'bāA^Y { 'āžā^@Yžž & ŽābAYāZā^Abāž^@AYāžāYžā^āAbāžāžā^@Yžž & ŽābA^AY^@' & āYāāY { A^āA  
Y^&~\āYāZā^āAbāžāY^āZ^b^āā^ & ~^āžžāY[A^Y^@' & āYāY^@bāA^@AbāžāžāY^ā^bYb^āA^A  
āb\ZZābA | ^āYb^āā~@^ | žžAbāYbAbāžāY^āZ^b^āāAZ^ā^bAY^āā^YbA { 'bāY^Y & ~\āA^āžāA^@A  
Z^āY^~ā^āY@[AYb^āāBÉ

**; I 89 : ) \* 39 ( 43 ) : ( 9 7 \* ( 47 ) 8**

MžY\ āžāAbāžACEY & 'ā[AOZ\Yb^āYāš^āabāYāZAS^ | Y^Y[AŁYbāACEOŠSLBAžžā^āžāAbāžāžY^@žāA^AY  
āb\ZZābAžāāYāžžā^āAbāžāY^āZ\YbA~@^YžžāāYāYāžž^Yb^āYā@žžY^@ZDA^bā^āYA~@^ | YbžāžY^@ZÉAā  
ā^b\Yb^āāā^ā | ^ā | 'āāY^bā@žā~^āžžābāāBāA^@A^@^ \~^A^@A^@áYā ]Yb^ābAYāZāAb\ZZābāBAYāY^ & āāAb^A  
YžAbāžāžY^~žābA^AYā^bāž^@Ab\ZZāb^āA & 'āY^āZ\YbDAbāžāžY^@žāA^Abāžā~@^YžžāāYāZā^Abāžā  
Z^āY^~ā^āY@[AYb^āAbYāžāDA^AYā [DAāYāAYžāY^āāžž^@žžAb^AYžāžāžž^Yb^āA^@žY^@žāA^AY^bāAbāžā  
@žā~^āžžābAYāZābāžāAb\ZZābāBAYāY^ & 'āāAb^AYžāžāžžY^~žābA^AbāžāYžāY | ^@AYžžY\ āžābāžž & Y[A  
YžAYā^ & ~Yb^āAbāžāžž^Yb^āYāY^@žž^AYāZāYāYāžžā^āā\Yžžāā^āAbāžāYžžž & YAY^& & \ā^b[A  
a^@žžY^āAb\ZZābāāA^@ & Yb^āAY^@bāžā^b\Yb^āA & Y[A^ā [AYžāāY@žžā { 'bāAbāžāAb\ZZābA^āZā  
@žā~^āā^YāžžAbāžāAb\ZZābāBAYāY^ & 'āāAb^AYžāžāžžY^~žābA^AbāžāYžāY | ^@DAbāž^@A  
~Y@žābāBÉā | Y@Z^YāāBā^AYAZžž~žāžžābDAbāž^@AYžžž & YAY^āžāžžāYā^@AYZ | 'ā^@DAYāZāāYā^āA  
^āā^Y^āā { 'bāAYāžā^b^ & Ybžāžž^Yb^āYā^ābžž^@AbÉAŁAAb\ZZābA & \ābā^ | Zā { 'bžžā~ž^@ & āā^āA^@A  
Yā | 'āžāžāžAb^āY | ŽAYžžāAb^āb^ā^ā^@ & Yb^āDA | āžāā^bāž^@ { 'āžā~ž^@ & 'bžžāY[Ažžž^Yā^@AAbYbžā  
āY { ÉACE^@AYZž^b^āYā^ā^@ & Yb^ā@žāY@Z^āACEOŠSLDA^Ab^A  
[ābb~īÉā^bžāāY^Éžž^ÉžžYā^āab\ZZābāf~YāžāY^& & \ā^b\[ÉābYāZ@ZāÉbāžÉaY & ā \[Éžž^Yb^āYāE@^āābāE  
YāZE~@^ | Y^Y\[ÉY^bÉAÉ](#)

**& I 7CRCLRGM L MD (MLBSAR 7CAMPBQ**

ŁbAbāžāY^ & ~āžb^āA^AbāžāZ^āY^~ā^āY@ [AYb^āāBAbāžāAb\ZZāb^āAžžY^@ZāāYāāYžāžb\āžžAb^A  
ā^ZāAbYāZ^āāDAY\ bAbāžāZ^āY^~ā^āY@ [AYb^āāBAYāZāā\~^@b^āā & Ybž^YāāāYāāYžāžbYāžžā  
'ābāžāAb\ZZāb^āY^āZ\YbA^žžÉA\YāAY@žžY^@Z & Y[A^Yžā^Ab^@Z\YžžAYāZā^ | ŽāAZ\Zā  
Y^āāžž^Yb^āA^āYā [Aā\Yāž^\* \žābY^Yāžā^ā { ā^YāAbāžāAb\ZZābA & Y[A^Yžā^ā | ^ā | žžÉAU~^āA  
ā^@YZ\Yb^āAbāžāAb\ZZāb^āY^āZ\YbA^žžA { 'āā\ā | Yā [AYžāžžāb^@ [žžā\āžāāAbāžāAb\ZZāb^āA  
Y^āb^ā^āāYbAbāžāUā | Žā^b[A^Y^@Y[A^Yā^@YZ\YbžāAb\ZZābA^@A~Y@b^Y^~Yb^āā^āYA  
~^ābÉY^Y^Y^@žYbžā~@^āY & ÉAŁAAb\ZZābAY^āZ\YbA^āžAbAYbā^āY\ZZābž^@ & 'āYb^āA^AY  
ā^ā^āāY^Ab@Y^YbDAā\ā~žāā^āDA^@A~^āb~^āž & ŽābA^AY { Y@Z^āā^AYAZžāžžā^@ā^ā^@DA  
āāYāYžžāžžāb^@ [žžāž | Bā [žY@āAYabž^@A^āYāZ^āY^~ā^āY@ [AYb^āāBāāY | ŽAYžžā  
Y^ & ~āžbžžÉAŁAAb\ZZābAY^āZ\YbA^āžAbAYbā^āY\ZZābAž | ^Yb^āA^AYZ & āā^āDAž | ^Yb^āA  
^AYAZžāžžāY { Y@žžžDAžžā^Yā^AY { Y@Z^āāYAZžāžžā^@ā^ā^@DA^@Z } ~\ā^āA { 'āāYžāžž~bA  
'āžžā^ā^bžā [É

ŌaYAāb \ ZŽāb'āA^ \ āZāābAōZā~āā'YāZāA^AYāābāZāYāYāāZāAā'ZŽAYāY'āābAā' & ēāZ@DA^@A' aAYA  
āb \ ZŽāb'āAZ' \ āZ@YbZŽA^@AbāZāYāYāāZāAZ@~--ZŽDAbāZāYābZābā^aAbāZā'āZā' @ZŸbā [A@ZāYbZŽA  
b^AbāZā'āY'ZŽābA { 'āAYZāZ' & ^ ZŽAYāZAZŽāb^ [ ZŽAYbAbāZāYāYā'ā'ā^A^AbāZāYāYāZē

# ; .I 84 : 7 ( \* 8 & 3 ) 1.2.98 4+ & : 9 - 47.9>

Uāb' & YbZāUā' | Zēā' b [AY \ bā^@' b [AYāZāZā~āā'Yā' b [A' āA & YbbZēāA^aAb \ ZŽābYāZ \ YbA@Zā'ZŽA { 'bāAbāZā  
S@Zā'ZŽābA^aAō^āāNY@^āāUā' | Zēā' b [ÉAbāZāS@Zā'ZŽābAāYāāZāZāYbZŽA' & ZŽ'YbZāY \ bā^@' b [AYāZA  
@Zā~āā'Yā' b [Aa^@Ab \ ZŽābYāZ \ YbDA \ āZŽ@AbāZāZāZāZāYāā \ ~Z@ | 'ā'āA^AbāZāU'YZAS@Zā'ZŽābA^aA  
Tb \ ZŽābAē.aaY' @āDAb^AbāZāNŽYāA^aATb \ ZŽābāē

pāZāNŽYāA^aATb \ ZŽābāāāYāZ | Zā~A~^'Y'ZāA^@AbāZāYZ & 'ā'āb@Yb^āA^AbāZāTb \ ZŽābAN^āZ \ YbA  
T [ābZ' & AYāZA~@^YZZ \ @Yā@ \ āZāA^@AY^āZ \ Yb'āāāZ'Y'āāāAbāYbAY@ZāY^āā'ābZābA { 'bāAbāZā~@^ | 'ā'āāA^aA  
bāZāTb \ ZŽābAN^ZŽÉpāZāNŽYāA^aATb \ ZŽābāA^@AZZā'āāZŽāāāYāāAZZbZ@ & 'āZābāZā~^āA^aATb \ ZŽābA  
N^āZ \ YbAēZ & 'ā'āb@Yb^@āDA^ & ~ā' b' ^āA^aāZ'Y'āāāY^Y@ZāAYāZAY~ZāāYbZāY^Y@ZāDAYāZāāYāā  
ZŽbZ@ & 'āZā { 'ā'YāY^Y@ZDA^@AYZ & 'ā'āb@Yb^@āāāYāāY'ZāY \ bā^@' ] ZŽAb^āZāY@AZŸYāA & YbZ@ÉAN \ @'āā  
Y@ZŸā~Z@'^ZāDA'āYā \ Z'āāā \ & Z@DAbāZāNŽYāA^aATb \ ZŽābāA & Y [AYāZ@AbāZā~@^YZāāAb^A~@^ | ZŽāA^@AYA  
b' & Zā [A@Zā'ā' b' ^āAb^AYAY^ & ~āY'ābA'āZŽē

pāZāābYāZY@ZāA^@AY^āZ \ YbAZZŸ'ā'āē & Yē'āāYbAYāāZ | ZāāA^AbāZāTb \ ZŽābAN^ZŽA^aAN^āZ \ YbA  
~@^YZāāA { 'āāAYZā & YZZA^āAbāZāYā'āA^aA { āZbāZ@A' bā'āA & ^Zā'āēZā [AbāYāā^AbāYbAbāZā~āZŽābA  
| ^āYbZŽAbāZāTb \ ZŽābAN^ZŽē

ēā [A\* \ Zāb' ^āA^aA'ābZ@~@ZbYb' ^āA^@AY~~ā'Yb' ^āA^AbāZāTb \ ZŽābAN^ZŽāāYāāY'ZāZ@ZŽAb^AbāZāNŽYāA  
^aATb \ ZŽābāA^@A'āYāAZZbZ@ & 'āYb'āē

## &I 8RSBCLR (MLBSAR & BKGLQRP?RMPQ

pāZāNŽYāA^aATb \ ZŽābāA^@AZZā'āāZŽāāāYāāAZZā'āāYbZāTb \ ZŽābAN^āZ \ YbAēZ & 'ā'āb@Yb^@āA  
{ āA { 'āāAYāā \ & ZāZā~āā'Yā' b [Aa^@AYZ & 'ā'ābZ@'āāYāZāYāā'āāZŽAb^AbāZ' & AYāZA  
Y^āZ \ Yb'āāAYZ & 'ā'āb@Yb' | ZāZāY@'āāē

## 'I 8RSBCLR (MLBSAR 'M?PBQ

pāZāNŽYāA^aATb \ ZŽābāA^@AZZā'āāZŽāāāYāāY@ZŸbZāb \ ZŽābAY^āZ \ YbAY^Y@ZāAb^āZŸ@AYYāZāA  
@ZāZ@ZŽAb^AbāZ' & ÉATb \ ZŽābAN^āZ \ YbAM^Y@ZāAYbAō^āāNY@^āāUā' | Zēā' b [A'āYā \ ZŽābāZā  
Tb \ ZŽābAUA' ^āAōZŸ@'āāM^Y@ZDAbāZāUA' | Zēā' b [AōZŸ@'āāM^Y@ZDAōZŸ@'āāSYāZāDAAYāZAbāZā  
Uā' | Zēā' b [Aē ~ZŸāāM^Y@ZÉA PZ & YZ@āā'~A^āAbāZāZāY^Y@Zā'āY [AY~~ā'āb & ZābA^@A  
ZāZŸb' ^āAYāZāYā'ā'āYā \ ZŽāb \ ZŽābāDAAY' \ ab [DAYāZāābYāā & Z & YZ@āÉATb \ ZŽābAN^āZ \ YbA  
M^Y@ZāA { 'āāAYZāY'āY@ZāY [AYāā^āE] ^b'āāAāb \ ZŽābA^@AY^āZ \ YbAYZ & 'ā'āb@Yb^@ÉAbāZāZā  
Y^Y@ZāAY@ZāY \ bā^@' ] ZŽAY [AbāZāNŽYāA^aATb \ ZŽābāAb^A@ZŸ^ & ZāZā { āZbāZ@AYāAb \ ZŽābāYāā  
| ^āYbZŽAbāZāTb \ ZŽābAN^ZŽDAYāZAb^A@ZŸ^ & ZāZAZ'āY~ā'āY@ [AYYb' ^āāA { āZāAY~@^@'YbZē

## (I (MLDGBCLR?JGRW

Tb \ ZŽābAN^āZ \ YbAēZ & 'ā'āb@Yb^@āDA & Z & YZ@āA^aATb \ ZŽābAN^āZ \ YbAM^Y@ZāDA & Z & YZ@āA^aA  
bāZāē ~ZŸāāM^Y@ZDAYāZAYZ | ā^@āAZ'āY~ā'āY@ [AYYb' ^āāAb^Aāb \ ZŽābāDA { ā'āZāY'ā'āā'āAbāZ' @A  
^āā'Y'āYāY~Y' b' ZāA' āAā \ YāA~ā' b' ^āāDAāāYāāY'ZāZŽ & ZŽAb^AYYbAYāā~ZŸYāYāā'ābYābāAb^A  
bāZāNŽYāA^aATb \ ZŽābāDA^āZā [Aa^@AbāZā~ \ @~āZāA^aA' & ~Y@b' āāAb^AbāZāZāZŸ@'āāāAbāZā  
Y'āā'ZŽāb'Yā' b [A~@^ | ZŽAY [A@Zā \ āYb' ^āāA^ | Zēā' āāY^āāZāZāYāZā \ ā' | Zēā' b' ZāÉA  
N^āā'ZŽāb'Yā' b [AYāā^AY~~ā'ZāAb^AbāZāY^ & ~āY'āYābāBDAYāZAYāāāb \ ZŽābāA' ā' | ^ā' | ZŽē

# ; ..I & 2 \* 3 ) 2 \* 398

5JC?QC @C ?U?PC RF?R RFC NPMTGQGLQ MD RFQK ?LS?J ?PC LMR RM @C PCE?PBCB ?Q ?LA  
GPPCTMA?@JC AMLRP?AR @CRUCCL /MFL (?PPMJJ : L6TCPQGRW ?LB GRQ QRSBCLRQI 9FC : L6TCPQGRWA  
PCQCPTCQ RFC P6EFR RM AF?LEC ?LW NPMTGQGLQ MP ?LW PCOSGPKCLR ?R ?LW RGKCI



Z'äY'~ä'äY@ [AYÿb'^ääA\~ä'äYä [Aäb\ZZäbÄääBAa^\äZAb^AäY|ŽA|'ä'YbZZAbäŽATb\ZZäbA  
N^ZZÉAŁATb\ZZäbAN^äZ\ÿbAŁZ&'ä'äb@Yb^@A { 'ääYŽAYää'ääŽZAYÄAYÄä^äE|'^ä'ää  
&Ž&YŽ@A^AbäŽAUá|Ž@ä'b[AÖŽY@'ääMM^Y@ZAYäZA { 'ääA@ \äAbä^äŽäZäY@'äääÉ  
ÉĎÉA PaŽAbŽ@ & AÄTb \ZZäbAN^äZ\ÿbAM^Y@ZÄA&ŽYääAYä [Aä@^\~A^aA~Ž@ä^ääAY\ bÄ^@' ]ŽZA  
Y [AbäŽANŽYäA^aATb\ZZäbAb^AŽŽbŽ@&'äŽA^@AŽY^&ŽäZA { äžbäž@AYÄb\ZZäbAÄYÄA  
|'ä'YbZZAbäŽATb\ZZäbAN^ZZDAYäZAb^AZŽbŽ@&'äŽA^@AŽY^&ŽäZAZ'äY'~ä'äY@ [A  
Yÿb'^ääDAYäY~@^~@YbŽÉATb\ZZäbAN^äZ\ÿbAM^Y@ZäYbAÖ^ääAN^Y@^ääAUá|Ž@ä'b [A  
'äYä\ZZAbäŽATb\ZZäbAUá'^äÖŽY@'ääMM^Y@ZDAbäŽAUá|Ž@ä'b [AÖŽY@'ääMM^Y@ZDA  
ÖŽY@'ääASYäŽääDAYäZAbäŽAUá|Ž@ä'b [AŁ~ŽYäääMM^Y@ZÉAPŽ&YŽ@ää'~A^äAbäŽäŽA  
Y^Y@ZäA'äY [AY~^~^äb&ŽäbA^@AZäŽYb'^äAYäZAYäA'äYä\ZZÄb\ZZäbADAÄYÿ\äb [DAYäZA  
äbYaaA&Ž&YŽ@äÉ  
ÉĎÉA PaŽAbŽ@ & A^Y\ä'äŽääAZY [cA@ŽäŽ@äAb^AYä [A { ŽŽæZY [AbäYbAbäŽAUá|Ž@ä'b [A'äA^~ŽäAb^A  
Z^AY\ä'äŽääÉA PaŽAUá|Ž@ä'b [AYYäŽäZY@Aää^\äZAYŽAY^ää\äbZZAa^@AZY [äAbäŽA  
Uá|Ž@ä'b [A'äA^aa'Y'Yää [AYä^äŽŽÉ

### ' I & A I L M U J C B E C K C L R Q

Pa'äAZ^Y\ & ŽäbA { Yä@Ž| 'äŽZA { 'bAbäžAYää'äbYäYŽA^aAbäžAa^ää^ { 'ääA@Žä^\@YŽäiA•ŁA  
P { Žäb [ECE'@äbANŽäb\@ [AP^ŽŽäATb\ZZäbAN^ZZA^aAN^äZ\ÿbAŁPY@\* \ŽbŽAUá|Ž@ä'b [äA  
Tb\ZZäbAN^ZZA^aAN^äZ\ÿbAÖ^ [^äYAUá|Ž@ä'b [A^aANä'Yä'^äAN^& & \ä'b [ATbYäZY@ZäA  
MYäZ { 'äEÜYääYŽAN^ääŽäŽ'äATb\ZZäbAN^ZZA^aAN^äZ\ÿbDAYäZA•Tb\ZZäbAN^äZ\ÿbA  
S@Yÿb'YŽcÉ

“..““fiŁ” ~ fiŁ fiŁfiŁ! &! Žž#

## &A?BC KGA 5MJGAGCQ

### &A?BC KGA - MLCQRW

Ł YYZŽ&'YäA^äŽäb [DAŽ]~ŽYbŽZA^aAZ|Ž@ [Aäb\ZZäbDA'äAZääŽäb'YäAb^AbäŽA~@^YŽääaAŽZ\ÿYb'^äAYäZA  
b^A\~ä^äZ'ääAä'ääHŽbä'YäAäbYäZY@ZäÉANäŽYb'äáDA'äYä\Z'ääA~äYä'Y@'ä&DA'äY~@^~@YbŽA\äŽA^aA  
bŽYää^ä^ä [DA^@AYä [A^bäŽ@Aæ'äZ^aA\äŽbä'YäAYŽäY|'^@A^@AZ'ää^äžäbAYŽäY|'^@DA&Y [Aä\YäŽYbAbäŽA  
äb\ZZäbAb^AäŽ|Ž@ŽAYYZZ&'YÄ~ŽäYäb'ŽäDA'äYä\Z'ääAZ'ä&'ääYäÉ



8RCN fl% pāžAā@Ž|YāYžA&\ābāYžA~@žāžābžžA'āA { @'b'āāAb^AbāžAŃ'@ŽYb^@A^aATTŃÉpāžATTŃA  
^aa'YžA'āā^YbžžA^āAbāžAÓY@žžāŃŽ|žāA^aAbāžAŁZ& 'ā'āb@Yb'^āAM\ 'āz'āāDA'āāŠ^&AŁE I ÉA pāžA  
TTŃA&Y'ā'āāAYZZ@žāā'āATž@ | 'YžAa^@ATb\ZZābāA { 'bāAŃ'āY'ā'ā'žāDAÉAŃāāANY@@^āā  
M^\\āž|Y@ZDAUā |žāā'b[AŃŽ'āābāDARā'^AFFÈÉ ÍÉA pāžATTŃA~ā^āžAā\ &Yž@A'ā  
ĀĐÉHBAÉ Í I EF Í H I ÉAŃāAbāžAž|žābAbāžAā@ž|YāYžA'āAYāY'āābAbāžAŃ'@žYb^@DAbāžAā@ž|Yābāāā\āžA  
ā'āžAbāžAā@ž|YāYžA { 'bāAbāžAŃYāA^aAbāžAŃ^āāžāžA^aŁ @bāAYāZATY'žāYžāA'āā^YbžžA'āAbāžAMA Ū'āā^aAbāžA  
ŃYāA^aAbāžAŃ^āāžāžA^aŁ @bāAYāZATY'žāYžāA'āā^YbžžA'āAbāžAMA Ū'āā^aAbāžA  
ŁZ& 'ā'āb@Yb'^āAM\ 'āz'āāA'āāŠ^&AMĚĚĚÉpāžA&Y'ā'āāYZZ@žāā'āARāā'YžA^aAbāžAŃYāA^aA  
bāžAŃ^āāžāžA^aAŁ @bāAYāZATY'žāYžāDAÉAŃāāANY@@^āāAM^\\āž|Y@ZDAUā |žāā'b[AŃŽ'āābāDARā'^A  
FFÈÉ ÍÉA pāžA~ā^āžAā\ &Yž@A^aAbāžAŃ^āāžāžA^aAŁ @bāAYāZATY'žāYžāA'āāĐÉHBAÉ Í I EFĐĚĚÉ

Łā[Aā@ž|YāYžAāāYāāĪĀYBAŃYžY@ā[A'ZZāb'ā[AAbāžAaYŃbāAYāZāž|žābāA@žāYbžžAb^AbāžAā@ž|YāYžA  
ĀYBA'ZZāb'ā[AYāāA@žž|YābA~ž@āāāAYāZAbāž'@A@žā~žYb'|žA^āžāA'āAbāžAZ'ā~\bžĪĀYBAž}~āY'āAYāāA  
žāā@bāA\āžž@bYæžāAb^A@žžāā|žAbāžA'āā\žA~@'^Ab^Aa'ā'āāYāā@ž|YāYžĪAYāZĀZBA'ZZāb'ā[AYā[A  
ā~žY'ā'Yā@žā'žāāā\āābÉAŪ~āā@žžY'~bA^aAYāā@ž|YāYžDAbāžAŃ'@žYb^@A^@AbāžAŃYāAāāYāā  
Y'ābYŃbAbāžA~Y@b'žāAYāZa~@^|'žžAbāž&AbāžA~~^@b\ā'b[Ab^Aā\Y&'bāž|'žžāYžAYāZa'ZZāb'ā[A  
{ 'bāžāāžāÉA Ū'āāžāāābYbž&žābā&Y[AŃžAā\Y&'bbžžA'āA { @'b'āāA^AYžAāžY@ZAY[AbāžA  
Ń'@žYb^@A^@AbāžAŃYāAāAŁ āāž|'žžāYžAāāYāāYžAā\Y&'bbžžA { 'bā'āAb { žāb[E^āžāĐÉBAZY[āā  
a^āā^ { 'āāAbāžAā\Y&'āā'^āA^aAbāžA { @'bbžāAābYbž&žābÉ

pāžAŃ'@žYb^@A^@AbāžAŃYāAāāYāā@ž|'ž { AYāāA@žž|YābAž|'žžāYžDAYāZāāYāāDA'āAY~@^~@YbžDA  
'ābž@|ž { AbāžA~Y@b'žāYāZa^bāžA { 'bāžāāžāÉpāžAŃ'@žYb^@AāāYāābāžAŃYāā\ābAYāā



paŹaUá | ž@a' b [Až] ~ž'ybāAb \ žžābāAb^A@ž'Y'áá' ] žābāž' @A ~ž'ā'ā'Yā@žā~āā'Y'ā' b [A' ā'ā'Y'āb' Y \ b' āāAb^Abā āā  
āžY'ā'āāYāZā' | āāAžā' | @^ā & žābAY [AY'āā' žž' āāAbāž' & ~Y'Ybā^Abāž' @AZž' ā' āāAb^Abāž' & āž | žāYāA  
{ žāāYāAbāž'Y' & & \ ā' b [AbžāY@Z' āāAbāž' \ āžāAaYāY'ā'ā'ēAMžāY | ^@AbāYbā' āā' āāžāA'āAbāžā~ā [ā' Y'YāYāZā  
ž & ^b' āYāA { žāēYž' āāA^āAāžāāA^@Abāž' āāYāZē^Abāž' @A ~ \ ā' \ bA^āāYā^āY'āā' ~A' āā \ ā' Y'Yžž~bY'YžžēA  
paŹaUá | ž@a' b [AZ'žāA^AbāY'āžāžā \ āžž' YāžāZ@' āā' āāYāZāY'āā' žž' āā' āb' } Y'Yb' ^āā' žžāb' ā' žžāY [A  
āā \ @žžā~žž'āDāž@Yb' Y'YžāY | ^@DA^@AZ' āā' Y \ āb [A { 'bā~ā [ā' Y'YāY'ā^@Z' āYb' ^āBDāZ' ā^@žž' ā' āžāāDāYāZē^@A  
^āāžāā' | žāYžāY | ^@AZž' | 'āāAa^& Abāžā \ āžāAaYāY'ā'ā' Y'Yžž' | ž'YāžāAb^AYžā \ ā' Y'Yžž~bY'YžžDā' žāY' žāžāā  
^Abāžā~žž'ā'ā'āYāžāā'āb' } Y'Yb' ^āā^@AYāY'ā'ā'AY' āžā { 'āāA^AbāYžāY'Yžž~bžžāYāYāž' } Y \ āžā^@A  
 \ āāY { a \ āāYžāY | ^@A^@A & 'āY'āž \ Ybē

Sž'ā'āā \ āžž'AbāžāYāžāA@DēAY@žāA^bā~ž' & 'bbžžAb^Y'āā \ & žā^@A~^āāžāāYāY'ā'ā' Y'Yžž | ž'Yāžā \ āžž'@AYā [A  
Y'Y \ & ābYāYžā' žāY' žāžāā^āā^Y'Yb' ^āAYāZā & Y [A^AbāYžā' āAbāžā~žāžāYžā^Abā^āžā \ ā' āāYāY'ā'ā'ā  
Uā | ž@a' b [AYāā' āāžž' žā' žžāYžā@žāY' žāžāā^āYāZēāTžžāSžā' žžāYžāO' āžAS^ā' Y'žāāžž' žā  
[ābb~lĕā bžāēāY \ ěžž \ ěžžYā^āāb \ žžābāē~YāžāēY^& & \ ā' b \[EābYāZy@žāē@žā žžāYžāāžED\]a^@A & ^@žAZžbY'āžžā  
ž' ~ž'YbYb' ^āā@žāY@Z' āāAYāY'ā'ā'ēB](#)

Ň'āā'āāYāZābāžāY'Y@ [ 'āāA^A^~žāY'ābY'āž'āā' ā~ \ Y'ā'Y'Y@žYāA^āUā | ž@a' b [A~ž' & 'āžāAY@žāA^bā~ž' & 'bbžžā  
Ā \ āāžāā~ž' Y'ā'Y'Yā [AY \ bā^@ ] žžā' āAZžā' āāYbžžAY@žYāA^@ā~ž' Y'āžž | žābāBēAbāžāYāžāZā & Yā \ āY'Yb \ @žžā^@A  
~ \ @Yāžāžā^āYā [AYāY'ā'ā' Y'Yžž' | ž'YāžāA^āUā | ž@a' b [A~ž' & 'āžā' ā~@^ā' Y'žžēAŇ' | ž@a^@A~Yāāžāāž' āā  
Uā | ž@a' b [A] žā' Y'āžāYāZāUā | ž@a' b [Eā~^āā^@žžā | žā' Y'āžā & Y [A^Abā~^āāžāā^@AY'āā \ & žāY'āY'ā'ā' Y  
Yžž | ž'Yāžāē

Tb \ žžābāAY@žā' žā~^āā' YāžāA^@AbāžāY'Yb' | b [AbāYbā^Y'Y \ @ā' āAbāž' @Abāžā' žžāYžā { āžbāž' @A^ā^@A^āAY'Y & ~ \ āēA  
pāžž'ā^@žžāb \ žžābā~@^ | z' āāAbāž' @Abāžā' žžāYžāYāYā~āY'žžā^@Abā^āžā \ āžž'@DēAb^AY'āā \ & žā  
YāY'ā'ā' Y'Yžž' | ž'YāžāDāž' bāž' ābžāb' ^ā' Yāā [A^@A@ž'Y'āāžāā [AāžY | 'āā@žā' žžāYžā \ āāž'Y \ @žžā^@A  
& ^ā' b^@' āāā \ žābāDā' āā^Abā~ž' & 'bbžžē

Tb \ žžābāYāžb [AYāZAZ' @ā' āā@žā~^āā' Yā [AY@žābāžāUā | ž@a' b [hā & Y'āA~@' ^@' b [A { 'bāAbžāY@žAb^AbāžāžāYā  
Y'āā \ & ~b' ^āA^AYāY'ā'ā'ēAbāžž'ā^@žžā { žāž' } ~ž'YbAb \ žžābā^AbāžāYāZ@' āā' āāYāžāAb^āžbAYā~^ā' b' | žā  
ž' Y & ~āž'Ab^AYāā & 'ā^@āY [AZ' āY' \ \ Yā' āāYāY'ā'ā'ē@ž'YbžžāYžāY | ^@AbāYbā' āAY' \ ā' | žAb^A^āžāāA^@Ab^A  
^bāž' āēA Sžā' žžābāb \ žžābāYāZābāž' @A \ žābāA { ā^AY@žāDēA^@A^@žž' @A & Y [AY'āā \ & žā & ^žž' Ybžā  
Y & ^ \ ābāA^AYāY'ā'ā' āUā | ž@a' b [A@žā' žžāYžā' āAbāžā~@' | Y'Y [A^Abāž' @A^@^ & āA { 'bāAbāžāZ^@AY'ā'āžžā  
YāZā' āAYā & Yāāž' @AbāYbā@ž'Y'āā' ] žāAbāžā' āābāA^Abāž' āēA TžžāSžā' žžāYžāO' āžAS^ā' Y'žā  
[ābb~lĕā bžāēāY \ ěžž \ ěžžYā^āāb \ žžābāē~YāžāēY^& & \ ā' b \[EābYāZy@žāē@žā žžāYžāāžED\]a^@A & ^@žā  
žžbY'āžžāž' } ~ž'YbYb' ^āā@žāY@Z' āāAbāžā \ āžāAaYāY'ā'ā'āBē](#)

Pž' & Yžž'āA^AbāžāUā | ž@a' b [AY^& & \ ā' b [AY@žāž' ] ~ž'YbžžAb^AYžāY { Y@žā^AYāZā^Yžž' [Aāžžž' YāDāābYbžžDāYāZā  
& \ ā' Y' ~YāāY { āA^@A^@Z' āYāYžžā@žā \ ā' Yb' āāAbāžā \ āžžā~^āāžāā' ^āDāYāžā^@A & Yā \ āY'Yb \ @žā^AYāY'ā'ā' Yā  
Yžž | ž'YāžāēAbā^āžā { ā^AY@žāY' bžžAa^@A | ^ā' Yb' ^āā^AaY { A^@A^@Z' āYāYžžāY [A & \ ā' Y' ~YāDāābYbžžDā^@A  
āžžž' YāY \ bā^@' b' žāA { 'āāYāā^AaY'YžžāUā | ž@a' b [AY'āž \ YbA~@^Yžžž' āāē

paŹaUá | ž@a' b [A@žāž' | žābāžā@' āābAb^AbYāžāž' āY' ~ā' āY@ [AY'Yb' ^āAYā' āābAYā [Aāb \ žžābāA^@A^āēY'Y & ~ \ āā  
YžāY | ^@AbāYbā | ^ā' YbžāAbā' āA~^ā' Y' [EAbā' ā' ā' Yā \ žžāāāb \ Z [AY'Y@^YZAYāZā' & & ž@a' ^āāž' ] ~ž' žāYžāē

Tb \ žžābāA^ \ āžž'ā~^āā' YāžāA^@Aa' @ābAYāZāāž'Y'āZāb' & žā | ^ā' Yb' ^āāA^Abā' āA~^ā' Y' [Abā^@ \ āābāžāY'āžāZ \ YbA  
~@^Yžžāā { 'āāYžāYāā' āāžžāZ' āY' ~ā' āY@ [AY'Yb' ^āāAbāYbā' āYā \ žžāYAY' & Y' āYb' ^āA^AbāžāA^āā^ { 'āāIAYA  
Z' āY' ~ā' āY@ [AābYb \ āAā' YāAYāUā | ž@a' b [A ŪY@ā' āāDAN^ & & \ ā' b [AS^@^Y'Yb' ^āDA^@AUā | ž@a' b [AS^@^Y'Yb' ^āI  
Yāžž \ Y'Yb' ^ā' YāA~@^ā' Y & IAYā@žāž'Yb' ^āāž' ž'Y' āžIAY' & & \ ā' b [A { ^@āA^@ \ āIāā' āžā \ ~Ab^Ab { ^āā \ āžžā  
YāZā' ab [AZ' āāY@āāāDGEÉÉÉBIA'Y'YāA^Ab' a' Y'Yb' ^āā' aY' ~ā' Y'Y'āžIā~Y@žābēā \ Y@Z' Yāā^Ab' a' Y'Yb' ^āIAYāZā  
& žāb^@' āāēAŌ^Ab^@[ābb~lĕā bžāēāY \ ěžž \ ěžžYā^āāb \ žžābāē~Yāžāēāb \ žžābēY'āž \ Ybē & 'ā' & \ & E  
Z' āY' ~ā' āY@ \[EY'Yb' ^āāēA^@AYāā~ž' Y'ā' Yā' ābA^AY'Yb' ^āāAYāā^Y'Ybžžā { 'bāAYāY'ā'ā' | ^ā' Yb' ^āāBē](#)

: 3.; \* 78.9> 84 (.&1 \* ; \* 398 <.9 - &1 ( 4 - 41

ÉÉÁ ÞáŽáŇ@ŽŸb^@A^aATb\ZZáBáLŸb' | b'ŽáA^@AZŽá'ááŽŽA & \ábAY~@^|ŽAZ|Žábá'á | ^á | 'ááAYáŸ^á^á  
 { áž@ŽáAb\ZZábáAY@ŽA~@ŽáŽáÉAS^ | 'á^ááA^@AáŽŸ | @b [A & \ábAYŽáŸ^@Z'áYbZZA { 'báBáŽA  
 Ň@ŽŸb^@A^aATb\ZZáBáLŸb' | b'ŽáÉ

ĐÉÁ ŁááYáŸ^á^á & \ábAYŽá~\@ŸáYáŽZDAá^iZDAYáZAáYáZáŽŽAY [A0NUAŇ'á'ááATŽ@ | ŸŽáA^@AŽ | ŽábáA  
 ážáZA'áAY@ŽŸA { áž@ŽA0NUAŇ'á'ááATŽ@ | ŸŽáA^@ZáAbáŽáŸ^á^@YŸbA@'ááBáÉASZ@á^ááA~^áá^@'ááA  
 YŸb' | b'ŽáA { 'báAYáŸ^á^áážáZA'áA^báŽ@AY@ŽŸáA^aAYŸ & ~\áA & \ábA^ŸbY'áAbáŽAY~@^@-@YbŽA  
 ~Ž@ & 'báÉAŁáŸ^á^á'ŸAYŽ | Ž@YážáAY@ŽáA^bAb^AYŽáA^aZAYbAYá [AŽ | ŽábážáZA'áAYAUá | Ž@á' b [AAYŸ'á' b [A  
 á^bAY^ | Ž@ŽAY [AYAbYbZá@ \* \^@Aá'ŸžáážÉ

€ÉÁ Tb\ZZáBáLŸb' { 'ááAYŽAYZ & 'bbZZAb^AŽ | ŽábáA^á [A { 'báAYA | Yá'ZYbZZA0^ááANY@^ááAUá | Ž@á' b [A0ŇAŸY@ZA  
 ŁQŇAY\@@ŽábAAbYbŽA'ZZáb'a'ŸYb'^áÉ

FÉÁ ŁbAYááŽ | ŽábáA { áž@ŽAYáŸ^á^á'ááž@ | ŽZDAá^áEAYáŸ^á^á'ŸAYŽ | Ž@YážáA & \ábAYŽA~@^ | 'ZZZAY [AbáŽA  
 á~^áá^@'áAYŽZ\* \YbŽA~@^~@b'^áAb^AbáŽAYáŸ^á^á'ŸAYŽ | Ž@YážáA^áAYáZÉbáŽA~^áá^@AYááA  
 & \ábA~@^ | 'ZZáA^áZÉ

GÉÁ Q^A^áŽááá^áZAYŽáŸ^á^áŽ@ŽZDAŽ | ŽáAá \Yb [DAb^AZ@'ááA^@A^ | Ž@'áZ\áážÉAŁáA^ŸYáŽ | ŽábAbáYbA  
 ŽáŸ^á^@YážáZA@ \áážáážááAYáAbáŽ & ŽDA^@AbáŽAYZ | Ž@b'áž & ŽábA^aAá \ŸáYáAŽ | ŽábDA'áA  
 \áYŸŸ~bYŸáŽAYáZA { 'ááA^bAYŽA~Ž@ & 'bbZZÉAŁZ | Ž@b'á'ááA^@A~@^ & ^b'ááAYáŸ^á^áAYáA~@' & Y@ [A  
 YbbYŸb'^áA^aAYáAŽ | ŽábAYáZAbáŽA & Y@žb'ááA^aAYáŸ^á^áAY [AYŽ | Ž@YážáA & Yá \aYŸb\@Z@áDA  
 Z'áb@ŸY\ b^@áDAŸá \ŸáDA^@A^@áYá' ]Yb'^ááAY@ŽA~@^á'ŸbZZÉ

HÉÁ ŁáYáŸ^á^áAYáá^bAYáZA { 'ááA^bAYŽááž@ | ŽZAb^A'áb^ | ŸYbZZA~Ž@á^ááÉ

IÉÁ ĆE^@A^aEYŸ & ~\áAYŸb' | b'ŽáA { 'báAYáŸ^á^áDAYAbá'@ZA~Y@b [A | ŽáZ^@A'áA@Ž\* \^@ŽZÉ

, :.) \* 1.3 \* 8 + 47 9 - \* 574 2 49.43 4+ \* ; \* 398  
< - \* 7 \* &1 ( 4 - 41 <.11 ' \* 8 \* 7 ; \* )

ÉÉÁ ŁááA & Y@žb'ááAYáZA~\Ÿá'Ÿb [A \ážZA^áEŸY & ~\áA & \ábAáŽ | Ž@AŽáŸ^@YáŽA | 'áYb'ááAYá [A  
 Uá | Ž@á' b [A~^á'ŸÉ

ĐÉÁ P Y@žb'ááAYáZA~\Ÿá'Ÿb [A & YbŽ@'YááA & \ábAáŽ' báž@AŽáŸ^@YáŽAYá [Aa^@ & A^aAYáŸ^á^áAYŸ \áŽA  
 á^@A & Yáž@ŽáŽ@ŽáŸAb^AbáŽAY & ^\ábA^aAYáŸ^á^á'ŸAYŽ | Ž@YážáÉ

€ÉÁ ŁáŸ^á^á'ŸAYŽ | Ž@YážáA & \ábA^bAYŽA~@^ | 'ZZZAYáY { Y@žAb^A'áZ' | Z\ŸáAb\ZZábA^@A  
 ŸY & ~\áA^@áYá' ]Yb'^ááÉ

FÉÁ Q^A \áŸ^á^@ááŽZáAY & ~á'ááAYáA~Y@bA^aAYŸ & ~\áA & Y@žb'ááA~@^áY & áááAYáŸ^á^áAYŽA~Ž@ & 'bbZZA  
 YáZáA^aAY & ~á'ááA^@A^báŽ@A~@^ & ^b'á'áAYáŸb' | b'ŽáááAYáá'áŸá \ZZAÁZ@'áá'ááAYáŸ^á^áAYáÉ

GÉÁ Úáž@ŽáŸ^á^@ááŽZáAY & ~á'ááAYáá^ { ŽAY [AAY | AYáZAUá | Ž@á' b [A~^á'Ÿ [DA' bA & \ábAYŽáA' & 'bZZA  
 YáAb^Ab' & ŽAYáZA \* \Ÿab' b [ÉAÞáŽáŸ^á^á \ & ~b'^áA^aAYáŸ^á^áA & \ábA^bAYŽAbáŽáA^áŽA~\@~^áŽA^aA  
 Yá [A~@^ & ^b'á'áAYáŸb' | b'É

HÉÁ S@^@^b'á'áAYáŸb' | b'ŽáA & \ábA^bAYŽáá^ŸYbZZA { 'báA^báž@ { 'ááž@' 'áb'ááAYŸ & ~\áA  
 Ž | ŽábáA^@A~@^áY & áA { 'bá^bAbáŽA~@^A^@á^ { ážáZAYáZAYáážáAb^AbáŽáŇ@ŽŸb^@A^aAT  
 Tb\ZZáBáLŸb' | b'ŽáÉ

IÉÁ Ňá~áY [A^@AY | YáŸŸ'á' b [A^aA~@^ & ^b'á'áAYá & YbŽ@'YááA & \ábA^áá^ { AbáŽA~^á'áA~^á'Ÿ [A  
 ŽŽ | Žá^~ŽZAY [AbáŽáŇ@ŽŸb^@A^aATb\ZZáBáLŸb' | b'ŽáA^Ab^A  
 ább~íÉá bŽááŸ\ÉZZ\ÉZZYá^áab\ZZábáÉ~YážáŸ^@ & \á b [ÉábYáZY@ZáÉ~^á'ááÉ

ÍÉÁ ÞáŽáŇ@ŽŸb^@A^aATb\ZZáBáLŸb' | b'ŽáA & \ábAY~@^ | ŽAYZ | Ž@b'á'ááA^@A & Y@žb'ááA^@AYáAŽ | ŽábAbáYbA  
 áYáAYáŸ^á^áAY | YáŸŸážÉ

### (JC?LGLLE ?LB 2?GLRCL?LAC 5MJGAW

(JC?LGLLE ^AbáŽA~\Ÿá'ŸAY@ŽŸA'áAZŸŸA^aAbáŽA@Žá'ZZáŸŽáAYááá'áAZ^áŽ^áAYAZY'á [AYŸá'áDA'áŸá \Z'ááA  
 { ŽžžáZáÉAŁáAŸážZ \áŽA^@AZ'á [Ab@YááA@Ž & ^ | YáAYáZAYáŽá'ááA^AbáŽA@Žáb@^ & áA { 'ááAYŽA~^AbZZA^áAZŸŸá  
 @Žáb@^ & AZ^@ÉATb\ZZáBáA { 'báAYáŸ^á^áŽ@áAYŸ^bAYáŽáá'ážááA^aAYá [AY@ŽŸAY@ŽAYáážZAb^Aá \Ÿ & 'bAYA { ^@áA  
 @Ž\* \ŽábA { 'báA~ŽŸ'á'ŸAZŽbY'ááA^AbáŽA'áá \ŽAYáAYŽAb@Žá^ | ŽZA'áAYAb' & Žá [A & Yááž@É

ÚažáYáŽYáááA@AbáŽA&YábŽáYáYŽAábYaaáAY@ŽááAY@Žáb^&Ab^AYáŽYáA^A&YæŽAŽ~Y'@āDAbáŽA  
Žáb@YáYŽÁāBA { 'ááYáŽáYááŽáYáZáYá^YæŽA^@A^~ŽA^aaEÁOá'ā&YáZYb^@ [AbáYbAāb \ZZábāA \áŽYá^báŽ@A  
@Žáb@^&AZ \ @ááAbáYAb' &ŽEAbáŽA \ á \ Žáb' b [A@ŽáŽ@] ŽábáŽA@ \ áábAb^AbYæŽAZ'áY'~á'AY@ [AYYb'áAYáY'áābAYá [A  
āb \ZZábAbáYbA | ^áYbŽáAbá'ā~^á'Y'É

## ) CKMLQRP?RGML 5MJGAW

ŁāAYáAYŽYŽZ&Y'AY^& \ á' b [DÁÓ^ááANY@@ááUá | Žáb' b [A'áY^& & 'bbZZAb^AY@ŽYb'ááAYáŽá | 'A^á & ŽábA^A  
'á \* \ @ [A { á'YáAZ & Y'YŽáHÓŽá \ 'bDANYbáá'YáZZ \ Y'Yb'áá'áAYáŽY@YáA@^Ab \ bāA { áŽ@ŽáYb'āAYáZ@ŽYá^áA  
Y^&~áŽ & ŽábáŽYá^báŽ@A'ááŽY@á'ááEŁbáb' & Žábá'áá~ \ @ 'bA^a'á \* \ @ [A & Y [A~@^Z \ YŽáY^áá'YbA^a'ZŽYáDA  
^~'á'áāDAYáZ~@^~^áYáāA^@AY'Yb'ááEAbáŽA \ á \ Žáb' b [A@ŽYáá' ] Žáb' bA@Žá~^áá'Y'á' b [Ab^A~@^ | 'ZZáŽáY'Yb' | ŽA  
YáYááŽáAa^@A'ábŽ@YáYá^& \ á' Y'Yb'áDAA@ŽŽAZ'áY'áá'áDAYáZAb^Yb'áYá~Ž@ \ Yá'áAYáAbáŽá^&YáYáZ  
~@ŽáŽ@ŽA&ŽYáAb^AY'@'ááYáZ@ŽY'áá' ] 'ááAZ'aaŽ'áY'áé

RáA^Y'Yá'áAbáŽáŽ'~@Žáá'áA^aAZ'ááŽábAbá@ \ áá'áZ' | Z \ YáA^AY^ááŽ'Yb' | ŽAY'Yb' | b [A & Y [AbYæŽAbáŽA^@ & A^aA  
ZZ&^áāb@Yb'áAÉÁOáA \ YáAYáŽáAbáŽA \ | Žáb' b [A & \ ābāáŽZ@Ab^AŽáā \ @ŽAYaY'@AYáZ@ŽYá^áY'YáŽáYáYáYá  
Y'Zb \ ŽŽáAb \ ^áāŽbāA^a@'áābāEAbáŽA'á'ābA'āAbáŽA@'áābA^AbáŽA & Ž & Y'Z@āA^AbáŽA \ á \ | Žáb' b [AY^& & \ á' b [Ab^A@ŽŽá [A  
~ \ @ā \ ŽAbáŽ@A^YáŽ'Yb' | ŽāA { 'bā \ bA \ ā@ŽYá^áYáZ^AYáAb \ Y'Yb'áA^@Aá'áZ@YáY'ZÉAbáŽáY'áZá'āAbáŽA@'áābAb^A  
Y^& & \ á' Y'Yb'ZDAY [A~Z'Y'Zá \ áAZZ & ^áāb@Yb'áAYáZAZ'áāŽábDAbáŽA~^á' b'áāAbáYbAbáŽ [AY^ááY'á'ā \ á [A  
Žá~ \ á'áZá^áA' | bYá'áá \ ŽáA^AbáŽAZY [ÉAbá'áAYáYáYáYáZ@Ž \* \ @ŽāA@Žá~ŽYbA^@AbáŽA@'áābāAYáZ@Žá~^áá'Y'á' b' ŽāA^AY^bāA  
bāŽA'áāb' b \ áAYáZAbáŽá'áZ' | Z \ Yáā'á | ^á \ ŽZá'áAbáŽAZZ & ^áāb@Yb'á'áÉ

Ō^ { Ž | Ž@DááŽ' bāŽ@AāŽbA^aA@'áābāA \ āb'á'ŽááŽ^~Y@Z' | 'ááA^@Abá@ŽYb'Zá'ááAbáŽáYáZb [A^aA~Ž@ā^áāA^@~@^~Ž@b [DA  
'áYá \ Z'ááA \ | Ž@Y^@ { Z'ááA^aY'Y & ~ \ āAY@ŽYáIá'ábZ@áŽáY'Zá { 'bāA~@^Y'ZááŽáA^@A~@^Y'ZŽ \ @ŽāA^a'áāb \ Y'Yb'áDA  
@ŽáŽY@YáDAYZ & 'á'āb@Yb'áA^@Aāb \ ZZábAY'Yb' | b'ŽāAY \ bA^@' ] ŽZAb^AY'ZáY'áZ \ Yb'ZŽA'áA \ á \ | Žáb' b [AaY'á' b' ŽāA^@A^āA  
 \ á \ | Žáb' b [A~@^~Ž@b [Iá | ^áYb'áA^aAZáY'Yá'áāŽáY \ 'áZ'ááA^ \ @āIá^@A^Y'áāb \ Y'Yb'áA^aAY \ bA^@' ] ŽZAY'Y'ZáāAb^DA \ áŽA  
^aA^@AZá@ŽáāA@^&A \ á \ | Žáb' b [AaY'á' b' ŽāEAT \ YáY'áZ \ Yb'áAY^áAb@Y@ [Ab^AbáŽA~^á'Y'ŽāAYáZ^AY'áY'Yb' | ŽāA^AbáŽA  
 \ á \ | Žáb' b [AY^& & \ á' b [ÉATb \ ZZábāA { 'áA~Y@b'Y'~Yb'Zá'áAZZ & ^áāb@Yb'áāAYáZáA' & 'áY@AY'Yb' | b [A { á'YáA'áābZ@áŽá  
{ 'bāAbáŽA@'áābāA^a^bāŽ@āA^@AbáŽA^@ZZ@ [Aa \ áYb'á'ááA^AbáŽA \ á \ | Žáb' b [A^@AY' | 'YáY^& & \ á' b [AY@ŽāA \ YáŽYbAb^A  
Z'áY'~á'áY@ [AYYb'áAY'Y'@Z'ááAb^AbáŽA \ á \ | Žáb' b [AAb \ ZZábAY'áZ \ YbA~@^Y'ZŽ \ @ŽāAYāA { ŽāāYáāŽáYáY'Yb'áAYáA  
Y~@^~@^Yb'ZÉ

Œ^@Ab@ŽYá^áāA^aAáZáŽ@Yá'áA^@ & Yb'áDAYāā'ábYáY'ZDAY' \ @bZā [AYáZá^A^Zá^@ZZ@DAYáZAb^AYāā \ @ŽAbáYbAbáŽA  
Uá | Žáb' b [A'á'áAY^&~á'YáŽA { 'bāAáZáYáYáZáY'ZáZ'á' @Ž & ŽábDAbáŽA \ á \ | Žáb' b [A~@^Y'ZáāA@Z' \ @ŽāAbáYbA  
āb \ ZZábāY^áābZ & ~áYb'ááAZZ & ^áāb@Yb'áAYáZáA' & 'áY@AY'Yb' | b' ŽāA & YæŽAbáŽ'@A'ábŽáb'áāAæá' { 'á'áAYZ | YáY'Zá  
b^AbáŽáN'ŽYáA^ATb \ ZZábAbá@ \ ááAYa & ŽZb'áAb^AZ'áY'áāAbáŽAY@YááŽ & ŽábAa^@AbáŽáZ' | ŽábAYáZAY^&~á'Zb'ááAYa  
ZZ & ^áāb@Yb'áA@Žá'áAb@Yb'áAa^@ & Aa^@AY~@^ | YáÉ

bāŽA \ āZá^AbáŽA \ á \ | Žáb' b [Aa^@ \ & Aa^@AŽ' ] ~@Žāá'áA^aA'ZŽYáA^@A | 'Ž { ~^á'ābāAZ'āA^bA' & ~á [AY'Y'Z~bYáY'ZáA^@  
ŽáZ^@āZ & ŽábAY' | AbáŽA \ Uá \ | Žáb' b [A^AbáŽA | 'Ž { āZ' ] ~@ŽāāZÉ

## ) PSE 5MJGAW

.11 \* , & 1 & 3 ) 57 \* 8 ( 7.59.43 ) 7 : , 8

bāŽAUá | Žáb' b [A~@^á'Y' bābāŽA'āāŽáYá \ áZDA~^āāZāā'áāDáYáZDZ'áAb'Y' \ b'áDA & Yá \ aY'Yb \ @ŽDAYáZÉ^@A^@ { bāA^aA  
'āāZáYáDAā | ābāZb'YDA^@AY^ \ ābZ@áZ' bAZ@ \ áāA^áUá | Žáb' b [A~@^á'Y' & 'āZāAá'áYá \ ZŽāA~@^~Ž@b [A~@^Yb'ZŽA^aaAbáŽA & Y'áA  
Y'Y & ~ \ ābDAYbAYá [AUá | Žáb' b [A~@^á'Y' & 'āZāZ' ] ŽábA^@A~@^á'Y' & A'á'áYá \ Z'ááAb \ Z [AYY^@^YZAYáZá' & Ž@ā'áA  
Ž' ] ~@Ž' ŽáY'ZAbáŽáY@ZáZāāA^aA { áŽ@Žá' bAbYæŽA~á'Y'ZÉAŁā^Y'Yb'áA { 'bāA'á'Yá \ Z'ááAbáŽA~@ŽáZáY'ZAYbBA  
áYbāŽ@'áāā'á' | ^á | 'áāA \ YáA \ áZDA~^āāZāā'áāDáYáZDZ'áAb'Y' \ b'áDA & Yá \ aY'Yb \ @ŽA^@A^@ { bāA'áYáā^A  
~@^á'Y' b'ZŽEAS^āāZāā'áA^@A \ áZáA^aZ' \ ~ & ŽābDA~@^Z \ Yb'āDA^@A & Yb'Z@'YáāDAbáYbAY@ŽA \ āZŽA^@AY@ŽAbZáYá^áYá [A  
Yáb'Y'~Yb'ZŽAb^AY'Zá \ āZŽá'áAbáŽA & Yá \ aY'Yb \ @ŽDáA^@ { bāDAZ'áAb'Y' \ áDAāYáZDá^@A \ áZáA^a'āāZáYáDAā | ābāZb'YDA^@A  
Y' \ ābZ@áZ' bAZ@ \ áāA^@A'áAbáŽA & 'á \ áZDáYáZáA^@AZ'áAb'Y' \ b'áA^aA~@ŽáY'~b'áāAZ \ áāA'āA~@^á'Y' b'ZŽEAO'Y & ~áZāA^aA  
Z' \* \ ~ & ŽābDA~@^Z \ Yb'āDAYáZá & Yb'Z@'Yáā'á'Yá \ ZŽAY \ bAY@ŽáA^bAá' & 'bZZAb^AY^áāāA~ \ @YáYáZŽA^@A^&ŽE & YZŽBDA

~'~žāDA@hāāáA~Y~žāDA|Y~^@'jžāDAāYyāžāDAYāZAá@'āZZ@aÉ

pāžA&'ā\āžA^aA~@žāY@'~b'^āAYāZ^A|žāAbāžāY^ā\ābž@AZ@ \āā'āA^bA~ž@&'bbžžÉA'pā'ā'āYā\žžāAāY@'āāAYA  
~@žāY@'~b'^āA { 'bāA\āY\āb^@'jžā~žā^āāDAžāā'āāYA { ā^āžA^@A~Y@b'YāA~@žāY@'~b'^āAb^A\āY\āb^@'jžā  
~žā^āāDA'ābžāb'^āYāā [AY^&'Y'ā'āāYA~@žāY@'~b'^āA { 'bāA^bāž@Aā\YābYāYžāDA~^āāžāā'āāÉ\ā'āāYA~@žāY@'~b'^āAZ@ \āā  
ā^bA~@žāY@'YžžAb^A [ ^\^DAYāZA'ābžāb'^āYāā [AZ}Yžž'āāAbāžA~@žāY@'YžžAZ^āYāžA^aYAZ@ \āÉ

Tb \žžābāAa^ \āZAžā~^āā'YāžAbā@^ \āāAbāžāY^āZ\YbA~@^YžžāAa^@AbāžāYāžDAZ'āb@'Y\^b'^āDA&Yā\āYŸb\@žDA  
YāZÉ^@Aā@^ { bāA^aA'āāžāYāDAā [ ābāžb'YDAYāZÉ^@AY^ \ābž@až'baZ@ \āāāā^ \āZāž}~žYbAb^A'Yžāā\ā~žāžžA^@AZ}~žāžžA  
a@^&AbāžA\ā'|žāā'b [ÉA'pā'āAYāā^AY~~ā'žāAb^Aāb\žžābāA^ \āZA@žā~^āā'YāžAa^@AbāžāYāžAYāZÉ^@AZ'āb@'Y\^b'^āA^aA  
~@žāY@'~b'^āAZ@ \āāÉ

Pž&Yžā^aAbāžAÚā'|žāā'b [AY^& & \ā'b [AY@žāž}~žYbžžAb^AYžAY { Y@žA^aYāZ^AYž [Aažžž@YāDAābYbžDAYāZA  
& \ā'Y~YāāY { āA^@A^@Z'āYāYžāA@žā\āYb'āāAbāžA\āžDA~^āāžāā'^āDAāYāžDAZ'āb@'Y\^b'^āDA&Yā\āYŸb\@žDAYāZÉ^@A  
ā@^ { bāA^aA'āāžāYāDAā [ ābāžb'YDA^@AY^ \ābž@až'baZ@ \āāÉA'pā'āžA { ā^AY@žāY' bžžAa^@A | 'āYb'^āāA^aA'Y { A^@A  
^@Z'āYāYžāAY [DAažžž@YāDAābYbžA^@A & \ā'Y~YāAY\āb^@'b'žāā&Y [AYāā^AaYŸžAÚā'|žāā'b [AY^āZ\YbA~@^Yžžž'āāāÉA  
pāžAÚā'|žāā'b [A@žāž@ |žāAbāžA@'āābAb^AbYāžAZ'āY~ā'āY@ [AYŸb'^āAYāY'āābAYā [Aāb\žžābAa^@A^aEŸY&~\āā  
YžāY|^@AbāYbA|^āYbžāAbā'āA~^ā'Y [É

Tb \žžābāAāā^ \āZAYžAY { Y@žA^aAbāžA~žāYāb'žāAa^@AZ@ \āA|^āYb'^āāÉA Tb \žžābāA { ā^AY@žāY@' & 'āYāā [AY^ā] 'YbžžA^aA  
Z@ \āA^aA'āāžāāžā&Y [Aa^āžāžž@YāA^@AābYbžA'āYāY'YāY'ZÉA Tb \žžābāA { ā^Aa^āžAY'Z\žžAb^AZ@ \āA|^āYb'^āāA  
YŸāY^ābYŸbAbāžACE'āYāY'YāY'ZURaa'YžAYbAÉHT ^@ÉYāB É M šb\Z āāY `@ÉÉHP `@

ŽŸ@ZDabāZāb\ZZābāYāAbāZā'āābAb^A~āYŸZYāābYbŽ&Žābā { 'bāAbāZāŽŸ^@ZāāZb'āāAa^@bāā'āA^@AāZ@A  
| Ž { AYŸ^ \ bAbāZāŸ^ābZābZā'āa^@ & Yb'^āÉ

€ÉA PaŽA@'āābAb^AŸ^āāZābAb^AZ'āŸ^ā\@ŽāA^aA~Ž@ā^āYāā [ A'ZZāb'ā'YŸāZā'āa^@ & Yb'^āAŸ^ābY'āZZA'āAbāZā  
āb\ZZābāZāZŸ\ŸYb'^āA@ŽŸ^@ZāDAŽ}ŸŸ~bAb^AbāZāZ}bZābAbāYbACEOŠSŁAY\ bā^@ ]ZāAZ'āŸ^ā\@Zā { 'bā^ \ bA  
Ÿ^āāZābÉ

RāZāZ}ŸŸ~b'^āAbāYbA~Ž@ & 'bāAZ'āŸ^ā\@Zā { 'bā^ \ bAŸ^āāZābā āAZ'āŸ^ā\@Zāb^AāŸ^ā^āA^aa'Ÿ'YāāA { 'bāA  
āZā'b' & YbZāZZ\ŸYb'^āYā'ābZ@ZābāÉAŁAāŸ^ā^āA^aa'Ÿ'Yā'āAYā~Ž@ā^āZ&~ā^ [ZZAY [AbāZāUā | Ž@ā'b [A'āAYāA  
YZ & 'ā'āb@Yb | ŽDAā \~Ž@ | 'ā^@ [DAYŸYZŽ & 'ŸA^@A@ZāZŸY@ŸāDA^@Aā \~^@bAābYaa~^ā'b'^āā'āŸ^ā\Z'āāAŸ { A  
Zāa^@ŸŽ&ŽābA \ ā'bA~Ž@ā^āZāAYāZāZŸYābāAābYaaBIAŸA~Ž@ā^āA^@AŸ^ & ~Yā [A { 'bāA { ā^ & AbāZāUā' | Ž@ā'b [A  
āYāAŸ^āb@YŸbZZāā\ŸāAYāAYāYb^@āZ [DAY\Z'b^@DA^@AŸ^āāZŸb'^āAYāZābBIAŸA~Ž@ā^āāZ@ | 'āā^āAbāZā  
Ÿ^Y@Zā^aAZ@ZŸb^@āI^@AYāab\ZZābāZ@ | 'āā^āAYāA^aa'Ÿ'YāŸ^ & & 'bbZZDA\ŸāAYāAYAZ'āŸ^ā'āY@ [A^@A  
ā@ Ž | YāŸ^ & & 'bbZZDA^@AYāā'āb'āāYā^bāZ@AāŸ^ā^āA^aa'Ÿ'Yā'āA~Ž@ā^@ & 'āāā^āA^@AāZ@AbYāāāÉAŁA

á & bZZAb^bYáZžÉáb \ ááá \ ááDAæá' | ŽāA { 'bāAa' } ŽZÁYáYZZāDAā { 'bYáYáYZZāDAā~@' ááEá^YZZāæá' | ŽāDA~^YæŽbA  
æá' | ŽāA { 'bāYáYZZāA^ááZž@AbāYāADĀĀ' áYāZāDAIYā [A' bZ & A' áYā \ Z' ááAæ' bYāZāA \ bZāā' áāA \ áZZāA^@AYāA  
'áY~@^@~@YbZā~ \ @~^āZDA & Y@b' YāAY@bāA { ŽY~^āāDAY^ { AYāZAY@^ { āA^aAYā [Ab [~ZDAā { ^@ZāDAY@YāāAæā \ YāāZāDA  
āā' áāAāā^bāDAž' ~^ā' | ŽāDA^@A' áYžāZ'Y@ [AZZ] 'YžāÉA'Pā' āA~^á'Y [AYāā^AY^ { ŽāāYā [A^bāZ@A' bZ & āAZZž & ŽZAY [A  
Ó^āāANy@@^āāS^á' YžāNž~Y@b & ŽābAb^AYžAZYááZž@^ \ āDA' áYā \ Z' ááAāY [Y@Z^ \ āYāZž & YYāA^AY' ^á'á' YYāA & YbZ@' YāA^aA  
Yā [Aā^@bEāL' áā^á'Yā \ ŽZZAY@ŽAZ' á~áY [āÉY^āāZžYb' ^āāA^AbāZāY^Y^ | ŽāAY & ŽZā' bZ & āDA^@áY & ŽābYāA { ŽY~^āāAYāZA  
^@áY & ŽābYāY & \ á' b' ^áÉ

Łā [A~@^á'Y' bZZA' bZ & āAY@ŽāA \ YāZžYbAb^AY^āá' áYb' ^āAYāZA~Z@ & YāZāAbA^@aZ' b \ @ŽA { 'bā^ \ bAYā [AZ] ~ZžYb' ^āA^aA  
@Zb \ @āA^@AZ' & Y \ @āZ & ŽābÉ

Łā [ASZ@ā^āA { ā^AYžY^ & ŽāAY { Y@ŽA^aAYA | 'á'Yb' ^āA^Abā' āA~^á'Y [AāYāYAE' i] kAb^A' & & ŽZ' YbZ@ [Aā^b' a [AbāZā  
ÓNUSŃĀĀĎÉHEĚĪ | EĚĎĚFBĚ

ŒY'á \ @ŽAb^AYZāZž@ŽAb^Abā' āA~^á'Y [A' āY^āā' Zž@ŽZAYāZž@' ^ \ āA & YbZž@ÉAÓNUSŃĀ { 'āā' á | Žāb' áYbZAYāāA  
| 'á'Yb' ^āāAYāZā@ŽāZž@Ab^AbāZāY~@^@~@YbZāUā | Žžā' b [AZZ~Y@b & ŽābA^@AZ] bZ@áYāYāZāY [AYāā' āa^@ & Yb' ^āA  
āZžZāāY@ [Aa^@Zāā^@Yž & ŽābAYāZā@Žāā \ b' ^áÉ

PažAY^ | Žā~@^á'Y' b' ^āAY~^á' ŽāA@ŽāY@ZāZāā^aA { aZbāZ@AbāZASZ@ā^āAYāYAY | Yā ZāAbYbZā~Z@ & 'bAb^AYY@@ [AYA  
a' @žY@ & É

PažAa^ā^ { 'āáA@žY@ & āAY@žAZž' } Yā \ ŽZZAa@^ & Abā' āA~@^á'Y' b' ^āā

ÉÉA Łā @žY@ & A' āAbāZā~^āāZāā' ^āA^aAYāA^āEZ \ b [AāY { AZāa^@Yž & ŽābA^aa' Yž@DAZ \ à [AY \ bā^@' ] ŽZAb^A  
YŸ@@ [AbāZā@žY@ & AY [Aā' āÉāZ@AZ & ~^á^ [ 'āáAāY { AZāa^@Yž & ŽābAYāZāY [DAYāZAYb' āāA^āAYZāYāA^aA  
YāZA { 'bā' āAbāZāY^~Zā^aAā' āÉāZ@A^aa' Y'YāZ \ b' ZāA { 'bāAā \ YāAYāZāY [A { ā' āZā^āAYY & ~ \ āA^@AYbAYA  
Uā | Žžā' b [AZ' @žYbZžAYb' | b' É

ĎÉA Łā @žY@ & A' āAbāZā~^āāZāā' ^āA^aAYAYY & ~ \ āāŠRbNA & Ž & Yž@A { āžā~Y@bA^aAYāA^aa' Y'YāāŠRbNA  
a' āYb' ^āDA { āžāAY \ bā^@' ] ŽZAY [AYA~@^āZāā^@A^aP' ā' bY@ [ATY' ŽāYžAYāZAYabZž@A^b' á' Yb' ^āA^AbāZā  
Ń' @žYb^@A^aAÓNUSŃĚ

ĚÉA Łā @žY@ & A' āAbāZā~^āāZāā' ^āA^aAYA~Zž@ā^āA { ā^āAYāA@žYž' | ŽZā~@^@A { @' bZāAY \ bā^@' ] Yb' ^āA@^ & A  
bāZāN' @žYb^@A^aAÓNUSŃĚ

Łāā { 'bāA^ \ @A^bāZž@Y^āZ \ YbA~^á'Y' ŽāDAÓ^āāANY@@^āāAb \ ZžābāAY@žāZā~^āā' YāZāA^@AbāZāYžāY | ^@A^aAYā [A  
á \ ŽābAbāZ [AāY | Žā^āAYY & ~ \ āÉAÓ^āāANY@@^āāAb \ ZžābāA { 'āāAYZāZāZAYŸY^ \ ābYāZāAb^ \ āāAbāZāTb \ ŽžābA  
N^āZ \ YbAS^AYžāā' aAbāZ' @ā \ ŽābāA | 'á'YbZAbā' āA~^á'Y [ÉAÓa [ ^ \ aAY | ŽAYā [A\* \ Žāb' ^āāAY^ābYbAbāZāN' @žYb^@A^aA  
bāZāÓ^āāANY@@^āāS^á' YžāNž~Y@b & ŽābÉ

# , MMB 8?K?PGR?L 5MJGAW

ŁbAÓ^āāANY@@^āāUā' | Žžā' b [DAbāZāAYāZb [AYāZA { ŽāaY@ŽA^aAZžY^A & Ž & Yž@A^aA^ \ @AY^ & \ á' b [A' āAY@' b' Y'YāÉAŁbA  
b' & ŽāDAY^ & \ á' b [A & Ž & Yž@āA^āAYāZāA^aAYY & ~ \ āA & Y [AāZžZAYāā' ābYāYžÉAÓ^āāANY@@^āāZ] ~ZžYbāYāāA  
āb \ ZžābāAb^AbYæZā@Žā~^āā' YāZāYb' ^āA { āžāA^bāZž@āAY | ŽAYā & ŽZ' YYāZž & ŽžāžY [A^@AY@Žā' āAY@' ā' āAY [A  
Y^ābYb' āāAY~@^@~@YbZā^aa' Y'YāZāZ | ŽāA { āžāA | 'á'Yb' ^āāA^AbāZāTb \ ZžābAN^ZžA & Y [AāY | Žā  
^YŸ' @@žZÉAŁbAbāZāb' & Žā^aAbāZā' áY' ZžābDAāb \ ZžābāA & Y [AYžA@Zā \ YbYābAb^AāZā~Aa^@AY^āYž@āAbāYbAbāZ [A & Y [A  
aYžZAZ' āY' ~^á'Y@ [AYŸb' ^āAa^@AYA~^á'Y [A | 'á'Yb' ^āāÉA'PāZāUā' | Žžā' b [Aāb@^āāā [AY^āā' Zž@āAbāZā~^ā' b' | Žā' & ~YŸbA^aA  
bYæ' āāA@žā~^āā' YāZāYb' ^āA { āžāAZžbZ@ & 'á' āAbāZāY~@^@~@YbZā@žā~^āāZāA^@AYāZāZā~^á'Y [A | 'á'Yb' ^āāA  
@ZāYb' āāAb^AbāZā' áY' ZžābÉA'PāZž@Žā^@ZDAbāZāÓ^āZATY & Y@' bYāAS^á'Y [A' āA' āA~^á'YžAb^AYāZž | YbZā \ YāY^āYž@āā  
YāZā@žZ \ YZāZā' bYb' ^āAY [AÓ^āāANY@@^āāAb \ ZžābāAb^AāZžæYāā' ābYāYžÉ

PažAÓ^āZATY & Y@' bYāAS^á'Y [AYāā' { āAa^@AbāZāZā' & 'á'Yb' ^āA^aAZ' āY' ~^á'āY@ [AY^āāZž@ + ā Zāā' ābYāYžÉ āY

Ž&Žážáŷ[A~ŽááážáÉApaŽAÓ^ZATY&Y@bYaAS^áŷ[AY~~áŽá'áAá'b\Yb^áá'á|ááAYáŷá^áDA  
^báŽ@AZ\ááDAábž@~ŽáááYáA|'ážáŷŽDAYáZ^báž@Aá'b\Yb^ááAY^ááZŽ@ŽZAYááZ@^áŷ[AYA  
@ŽYááŷáZá~ŽáááÉA9FGQ KC?LQ RF?R LM DMPK?J : LGTCPQGRW B@QAGNJGL?PW ?ARGMLQ MPA  
Q?LARGMLQ U@GJ @C ?QQGELCB RM RFC PCNMPRGLE QRSBCLR^Q^DMP K@LMP T@MJ?R@MLQ PCJ?R@LE RMA  
RFC @LAGBCLRi paŽA'áŷZžáA { 'áááá'ááAYžáZ^áŷ\ &žážáZAYáZáZŷŷYb^ááYáZÉ^AážáYááA  
ŷá|žááY^ááÉ'ábž@|žáá'ááA&Y[AYžá@ž\* \ 'žáZAYáAYáAYáZ@áYb|žááAZ'áŷ~ááY@AáYáŷb^ááÉ

pa'áA~^áŷ[AZ^žáá^bA~@^bžŷbA@ž~žYbžžDAaaYá@YááDA^Aáž@^'á|áA|'ááYb^áá^AAbážATb\žžááN^žžáážáÉA  
Yŷ\á|žáŷ^áZ\ŷbDA'ábž@~žáááYáA|'ážáŷŽDAYáZ^báž@Aá'b\Yb^ááAYáŷá^ááAYáZÉ^A^báž@AZ\ááDAáY]ááDáážááDA  
~@^~žž@b[AZY&YážáZáŷbÉbA^@A|'ááYb^ááAbáYbááY@&AYá^báž@A~žáá^A@ž\* \ 'ááAZ&žážáŷ[A@žá~^áážáá^A  
Z^žáááZá~^áŷ[A~@žŷá\žžá^@A~@ž|žááYŷb^ááY[A~^áŷžá^@AážáYáY\bá^@'bžáÉ

ÓáAYáá'b\Yb^áá'á|á|'ááA' & 'ážááZAYááZ@Ab^AbážáážáŷááAYáZÉ^AáYážb[A^aAYá[A'áZ'|Z\YáááBDAáb\žžáááAY@žA  
ž}~žŷbžžAb^i

- ÉÉA N^ááYŷbA@NUSŇAÁĐÈHEÉÍ IEÉĐ€FBDAŠžá'ZžáŷžAÓ'ažDA^A^báž@Až&žážáŷ[A  
^aa'ŷYááAb^A@ž~^@bAbážA'áŷZžáá|
- ĐÉA Šž&Y'áa { 'báAbážA'áz'|Z\YááBAAžžž'ááž&žážáŷ[Ab@žŷb&žááAYáZAY^~žŷYbžA { 'báA  
ž&žážáŷ[A~žáá^áážáAYáá^ááAYáA'ááAYáZá^A^A^i
- €ÉA PžžbA { 'báAY~@^~@'YbžAUá'|žžáá'b[A^aa'ŷYááAYabž@AbážA'áŷžžááAYáZAY^~žŷYbžA { 'báAYá[A  
Uá|žžá'b[A'á|žáá'áYb^ááÉ

CEY'á\@žá^aAb\žžááAb^AbYáéžá@žá~^áá'Yážáŷŷb^áá\ážž@Abá'áA~^áŷ[A { ážžáŷŷb^áá'ááŷážŷ@á { Y@@YábžžA  
YáZáAY@&A@žá\ábáA&Y[DA'áážážá'á\áŷ'@ŷ\ &ábYážžáŷáááb'b\bžáážáZAYááZ@'ááAYá[A~žáá^Až'áž@A  
'ábžáá'ááYáa[A^@A@žŷéážáá[A\á\ážž@AbážATb\žžááN^žžááZAYáŷáŷ\áZážá\ábá'áAZ'áŷ'~ááY@[AYŷb^ááAbá^A^ááAbážA  
Tb\žžááN^áZ\ŷbAT[áŷ&ÉAbá'áA~^áŷ[AZ^žáá^bA~@^|žžáY&ážáá[Aa^@Aáb\žžááA { á^A@ž~^@bAbáž@A^ { á  
&žžŷYáž&žážáŷ[É

## - ?RC +PCC 5MJGAW

Ó^ááANy@^ááAUá|žžá'b[A'áAY^& & 'bbžžAb^Aa^ábž@'áážáŷáŷáYáZa & ^@YáA|Yá\žžáAbáYbAY@žáŷáá'ábžáA { 'báA  
Óžá\^bAYáZANyBá^áŷAb^YZ'b^ááÉA& & ááAbážáŷážáYáYá|Yá\žžáA^AbážáUá|žžá'b[Aŷ@žAbážA'áážžááZáZáá'bžáA  
^Aáž|žž[A'áZ'|Z\YáAYáA { žžáAYáAbážA@'ááAb^Aážŷŷá~žžáAb^Aá^áZAYáZAb^Až}~@žžááá'á^A@áž@A|žž{~^ábéA  
ÚážáAbážážA|žž{áŷááá'ŷbA'áAbážA^áŷ'áYb^ááA^A&ž&ŷž@áA^Abážáŷ^& & \á'b[Ab^A@žá~žŷbAbáž@A  
~žžá~žŷb|žáÉ

paŽAUá|žžá'b[A { žáŷ^&žáAb\žžááDAAYŷ\áb[DAábYaaDAYáZa|'á'b^@áA^&AZ|žžážáŷŷéa^á\áZáAYáZá'bA { ^@éáA  
b^Ažáá\žžááYbAbáž[A { 'ááá'áZAbážAUá|žžá'b[Ažá|'@^&žáAb@žžá^aAZ'áŷ' & 'áYb^@[AY^áZ\ŷbÉA@bá'á  
\áŷŷž~bŷŷážAYáZAY|'ááYb^áá^aAUá|žžá'b[A~^áŷ[Ab^AAY@YááDAYŷ\ážDA^AZ'áŷ' & 'áYžáYá'ááAYá[A  
~žžá^áAYžŷŷ\ážA^AYážDA^ŷŷžáážážž@DAžbáá'ŷb[DAáž]\YáA^@žáYb^ááDA@žá'á^áDA^AZ'áŷ'á'b[É

Ó^ááANy@^ááAUá|žžá'b[Ažžá'ážáAYbžÉ & ^b|YbžžA^aažážáŷáYáYá[Aŷ^áZ\ŷbAáAYáá&žáAb^@A~á[áŷŷá  
YŷbáZ@žŷbžžAYbAYá'áZ'|Z\YááBAA^Abážáŷá'áA^AYážDA^ŷŷžážáá'ŷb[DAážážž@DAáž]\YáA^@žáYb^áDA  
@žá'á^áDA^AZ'áŷŷ'á'b[A { 'báA'ábžáá^áAb^A'áb' & 'ZŷžA^@A'áá\@žáYá'áZ'|Z\YááBAA~á[áŷŷá[DA&žáYá[DA^@A  
ž & ^b^áAYáa[ÉAÓYbžA & ^b|YbžžA^aažážáŷáŷ^&~@^& 'ážAbážA'ábžá@'b[A^AbážAÓ^ááANy@^ááAUá|žžá'b[A  
ŷ^& & \á'b[AYáZAY^áááb'b\bžA|'ááYb^áá^AAbážAÁOááYá'áá'ááAYáá&žáAYážžA^áAYážDA^ŷŷžáážážž@DA  
žbáá'ŷb[DAáž]\YáA^@žáYb^áDA@žá'á^áDA^AZ'áŷŷ'á'b[AA~@A|'á^áA^AbážATb\žžááN^žžáážáŷb^ááDYBÉA&á'áAYááA  
ŷŷážáA^A& 'áŷ^áZ\ŷbDA'áŷá\Z'áááYbžA & ^b|YbžžA^aažážážáADAY^bAbážA@žá~^ážžááYáZAbážáAb\žžáA { á^A  
ŷžá|žžááéážáYáŷŷžáAY@žŷ~žáAb^AbážA@žá~^ážžááA& 'áŷ^áZ\ŷbAY|žžá'ááAbáYbAY@žá'á'ábžá  
bá^A^ááAbážATb\žžááN^áZ\ŷbAS^ŷŷžááÉApažážá@'ááAbAY@žáŷ^áY'ážžA'áAbáž'@Ažá@žb[AážžA  
ább~jĚĚá'žžáŷŷŷááab\žžááé~Yážáŷŷ^& & \á'b[ÉábYáZY@žáŷ^áZ\ŷbÉa|ábž&É

PŽ&ÝžāāAbāžĀŌāāNY@āUá | Žāb [AYāŽŷbžžAY [AāYbžE & ^b | YbžžAāžāāžāAYžāābāā [A  
Žāŷ\ @YāžžAb^āž~^@bAbāžāžā'āŷžžābāÉAT\ŷāAāžāāžāŷŷāŷāžž~^@bžžAb^AY | Y@žb [A^āAā'ŷžāA^ā  
ŷŷ&~\āā'āŷā\Z'āāĪNžŷāA^aTb\žžābāRaa'ŷžDARaa'ŷžA^aŠžāžžāŷžāŷāžžDĀŌ^āāNY@āS^ā'ŷžāNž~Y@b&žābDA  
YāžÉ^@bāā\āāAbāžAM'ŷāAŌŷ'žžābāšž~^@bāžāžāabb~ĪĒĒā'bžāĒāŷ\Ēžž\Ēŷŷ\ŷāĒ~ŷāžāĒž~^@bĒŷŷāĒ

Tb\žžābāA^āZāžā~^āā'ŷāžāA^āAŷbžE & ^b | YbžžA | ^āYb'āāAY@žāā\ŷāžŷbAb^AY@ŷāāžāA^aZ'āŷ~ā'āŷ@ [A  
ŷŷb^āāA\~Ab^AYāZā'āŷā\Z'āāžž}~\āā'āAa^&AbāžāUā | Žāb [Ē

Āā'āA~^āŷ [A'āAž~Y@ŷbžAYāZAZ'āb'āŷbAa^&AbāžĀŌ^āāNY@āUá | Žāb [ATž} \ŷāŌŷŷāā&žābA~^āŷ [AbāYbA  
ŷŷāŷžāA^āZāžžāabb~ĪĒĒā'bžāĒāŷ\Ēžž\Ēŷŷ\ŷāĒ

## - ?XGLE 5PMFG@GRGML 5MJGAW

Ōbā'āAbāžĀ~^āŷ [A^āŌ^āāNY@āUá | Žāb [AbāYbAŷŷ] 'āāŷŷb' | 'bžāA^aYā [Ab [-žAY@žā'āŷ^āā'ābžābA { 'bāA  
žž\ŷŷb'^āAYāžAY@žā~^āŷ'ŷžžAYbAYāAb' & žāĒAQ^āAb \žžābDA'āŷā\Z'āāAžžžāA^āāb\žžābA^āŷā' ]Yb'^āāDA & Y [A  
~āŷāDAžāŷ\ @ŷāžžA^āžāāŷāZā'āAŷŷ] 'āāĒAQ^āAb \žžābDAābYaaDAŷŷ\āb [A & žž & ŷž@DAYā \ & ā'ŷžžBA^@bāžž@  
žž & ~ā^ [žžA^aŌ^āāNY@āUá | Žāb [A & Y [Ažāŷ\ @ŷāžžDA~žž & ^bDAŷ^āZ^āžžDA^Ab^āžž@ŷbžžAYā [Aāŷ] 'āāŷŷb' | 'b [Ē

Ōŷ] 'āā'āAZžā'āžžAYāAZ'āāAYā [AYŷbA^@ŷŷ^žŷ'āāAYā^bāžž@~žž^āAb^AZ^AYā [AYŷbAbāYbAYŷ\ āžāDA^@ŷŷbžžāAY  
@'āāA^aŷŷ\ ā'āāDA~ā [ŷā^ā^āŷŷŷāA^@A~ā [ā'ŷŷāAŷŷ@ & Ab^AYā [A~žžāāĒŌŷ] 'āā'āŷā\žžāŷŷb'^āāA^āā' b \ŷb'^āā  
bāŷbAŷ\āžA^@AZ^āžā\ābA'āA & žābYāDAžž & ^b'^āŷāDA^@A~ā [ā'ŷŷāZ'āŷ^ & a^@bDAžž & ŷŷ@ŷāā & žābDA@'Zŷ\āžžA^@A  
žžAYāāžž & žābA { āžžāžž@'ābžžāb'^āŷāDA^@A\āDA^@AY [AYāāžžābĒŌŷ] 'āā'āŷāāŷŷ^žžŷ'āāAYā^bāžž@~žž^āAb^A  
|'^āŷbžžAYā [Uā | Žāb [A~^āŷ [ĒARŷ] \^āāžž}Y & ~āžžāA^aŷŷ] 'āā'āŷā\žžAY\ bAY@žžā^bāā' & 'bžžAb^ĪA  
{ ā'~āāDAŷŷb'^āDA^@AYŷāžžāāA^@ŷžžAYŷā'ābāžžā'ŷāĪžž}~ā\@žžAb^A { žŷbāžž\ĪA^@ŷžžA^@A  
žž\* \ 'žžAY^āā \ & ~b'^āA^aYā [Aa^AZDA@' \* \^@DAYžž | žžŷāžžDA@ \ āDA^@AYā [Aā\ŷābYāŷžžĪAYā [AY@ \ bYāA  
^@ŷŷ\ žžAb^žžb & žžābĪAYāZDAŷ [AYŷb' | 'b [A { ā'ŷāā\ŷāžžbAŷā [Aāb \žžābA^@bāžž@~žž^āAb^A  
@'Zŷ\āžžDA & žžAbYāāb@žžāDA^@A \ āžž\žž~ā [āŷŷāžžāžž \ @ŷāŷžž

Tb\žžābāDAābYaaDAŷŷ\āb [A & žž & ŷž@DAYā \ & āŷžž'AYāZAYāābāžž@žž & ~ā^ [žžāA^aŌ^āāNY@āUā  
Uā | Žāb [Aāā\āZAYžAYžž@bAb^A~^āā'ŷāžāb \ŷb'^āāDAŷŷ\ŷ & ābYāŷžžāA^@žž | žžābA { ā'ŷāA & 'āābā'āŷā\žžāŷŷ] 'āāĒ

Ōāāŷŷ] 'āāA^@A~āŷāāžžāŷŷ] 'āā'āAZ'āŷ^ | žžžDA'ā | Ā | žžāAb \žžābāA { 'āāŷžžā'āA^@ & žžAY [Abāžžāŷ'āŷ^ | žž'āā  
~žžā^āA^AbāžžA~@āŷ'ŷb'^āŷŷ^ābY'āžžā'āAbā'āA~^āŷ [AYāZā { 'āāŷžžāžž\* \ 'žžAb^AZāZAYāāŷŷ] 'āāŷŷb' | 'bžžā  
' & žž'ŷbžž [ĒAĪāāŷŷ] 'āāŷŷb' | 'bžžā & \ābAYžžāžž~^@bžžā' & žž'ŷbžžā [Ab^AbāžžāNžŷŷāA^aTb \žžābāRaa'ŷžAYāZā  
bāžžāN'žžŷb^@A^aTb \žžābāĪŷb' | 'bžžāĒ

Tb\žžābāA | ^āŷbžžābā~^āŷ [A'āAbāž [AZ^ā^AbAžž~^@bA'āŷžžābāA^aŷŷ] 'āāA^@A~^Abžžāb'ŷāAŷŷ] 'āāAb^AbāžžāN'žžŷb^@A  
^aTb \žžābāĪŷb' | 'bžžāA^@b^AbāžžāNžŷŷāA^aTb \žžābāRaa'ŷžĒATbYaaDAŷŷ\āb [A & žž & ŷž@DAāb \žžābDAŷŷāZAYāā  
^bāžž@žž & ~ā^ [žžāA { ā^Aaŷ^Ab^AYŷžžAY [Abā'āA~^āŷ [A & Y [AYžžā\ŷāžžbAb^AUā | žžāb [AYāžžĒ@Aāŷb'^āŷā  
^@āŷā' ]Yb'^āAZ'āŷ~ā'āŷ@ [AYŷb'^āŷāZā & Y [AYžžā'ŷŷžžāA^@ŷŷ] 'āAYāZAYŷ' & āŷā~žžāŷb'žžā'āAYŷŷ^@ZYāŷžā  
{ 'bāAžžž@ŷāDAābYbžžAYāZā & \āŷ~ŷāāŷ { āĒ

## .LDMPK?RGML 9CAFLMJMEW 5MJGAS MJGJ



~^á'Ÿ[DA & \ábAY'ŽA \ážŽA'áAYA & YááŽ@AbáYbAa \ @báž@āAbāŽAUá | Ž@ā'b [ĥāA & 'āā' ^áÉ

Łá[AYŸŽžāā^@A \ āŽA^aA'āa^@ & Yb'^āAbžŸāā^á^á [A@Žā^ \ @ŸŽāAbāYbAŸ^āā'ŸbāA { 'bāAbā'āA0āa^@ & Yb'^āAbžŸāā^á^á [A  
Šžā^ \ @ŸŽāAS^á'Ÿ [ĀĀS^á'Ÿ [ĀĀ@ĀĀ0PAS^á'Ÿ [ĀBA^@AYā [A^bāž@AUá | Ž@ā'b [A~^á'Ÿ [A'āā^bAYŸŸŽ~bYŸáŽAYáZA { 'āāY'ŽA  
Ÿ^āā'žž@žžAY | 'ā^Yb'^āA^Abā'āAS^á'Ÿ [ĒAŁZZ'b'^áYāā [DAYá [AYŸb' | 'b [AbāYbA'ābž@ažž@žāDA'ābž@@ \ ~bāDA  
Ÿ^ & ~^@^ & 'āžāDA^@AY^āā'ŸbāA { 'bāAbāžāāYāžAYāžAZāY'žābA \ āžA^aA0PASžžā^ \ @ŸŽāA'āAY^āā'žž@žžAY | 'ā^Yb'^āA^aA  
bā'āAS^á'Ÿ [ĒA^á'āAS^á'Ÿ [ĀāāYāāAY~ā [Ab^AYāāAUāž@āA'áYā \ Z'āāDAŸ \ bā^ābā' & 'bžžAb^DAāb \ žžābāDAž & ~^á [žžāA  
ĀaYŸ \ āb [AYāZAbYaaBDAá \ žābāDAYaa'ā'YbžāDA | žāž^@āAYāZA'āžž~žāžžābAY^āb@YŸb^@āĒAUāžA^aA0PASžžā^ \ @ŸŽāDA  
ž | žāA { āžāAYŸ@žžA^ \ bA^āAY~@ | Ybžā [A^ { āžžAY^ & ~ \ bžž@AbāYbA'āā^bA & YāYāžžA^@A & Y'ābY'āžžAY [AbāžA  
Uá | ž@ā'b [DA'āA^ \ ž@āžžAY [Abā'āAS^á'Ÿ [ĒA^á'āAS^á'Ÿ [Āā \ ~ž@āžžāAYā [Až] } 'āb'āā~^á'Ÿ žāAYāZ~@^Yžž \ @žāA  
bāYbAY@žA'āAY^āā'ŸbA { 'bāAbāžAbž@ & āA^Abā'āAS^á'Ÿ [Ē

**..15 : 7548 \***

pāŽA~ \ @~^āžA^aAbā'āAS^á'Ÿ [A'āAb^Ažžā \ @žžAYāA'āa^@ & Yb'^āAbžŸāā^á^á [A'āa@Yāb@ \ Ÿb \ @žAbāYbA~@^ & ^bžāAbāžA  
ŸYā'ŸA & 'āā' ^āAYāZA~ \ @~^āžA^aAbāžAUá | Ž@ā'b [A'āAbžŸYā'āāDAžžY@ā'āāDAāž@ | 'ŸžDA@žāžY@ŸāYāZA  
YZ & 'ā'āb@Yb'^āDAYāZAb^Ažžā \ @žžAY^ & ~^á'YāžA { 'bāAYāāAY~ā'ŸYŸāžžAY { āĒA0bAYāāA~@^ | žžāā^b'ŸžDAb^AYāāA { ā^A  
 \ āžAYāZA & YāYāžA0PASžžā^ \ @ŸŽāDA^aAbāžAUá | Ž@ā'b [ĥāž] ~žžYb'^āāAYāZA@žA \ āYb'^āāĒ

**...185.7.9 4+ : 8 \***

Uāž@āAY@žžā~^āā'ŸāžA^@AbāžA~@^bžŸb'^āA^aAUá | ž@ā'b [AYāāžžāAYāZĥa^@AbāžAYŸŸ \ @YŸ [DA'ābžā@'b [AYāZA  
Ÿ^āā'žžāb'Yā'b [A^aAbāžA'āa^@ & Yb'^āAb^A { ā'ŸāAbāž [ĀAY | žAYŸŸžžāĒAUāž@āAY@žžā} ~žŸbžžAb^A \ ~^ā^aZAbāžA  
ābYāZY@žāAYāZA~@'āŸ~āžāA^aAbāžAUá | ž@ā'b [A { ā'žā \ ā'āā0PASžžā^ \ @ŸžāĒAŁŸŸ^@ž'āā [DA \ āž@āAY@žžā~@^a'ŸbžžA  
a@^ & A \ ā'āāAYā [A~^@b'^āA^aA0PASžžā^ \ @ŸžāAb^A~ābA^@Ab@Yāā & 'bAYā [A'āa^@ & Yb'^āDAŸYbYDAbž] bDAa'āžDAā'āāDA  
ā^ab { Y@žDAŸāYbDAŸ^ & \ ā'ŸYb'^āA^@Abāž@AY^ābžābAbāYbA'āāAY@ & a \ āDAYŸ \ ā | žDAž'āŸ@' & āYb^@ [DA^āb'āžDA  
Ÿ^ & ŸYb' | žDAbā@žYbžā'āāDA'āā \ āb'āāDAž & ŸY@Yāā'āāDA^Y@Yāā'āāDA'āb' & žYb'āāDAžžAY & Yb^@ [DA~^@ā^á@Y~ā'ŸDA  
^ŸāŸžāžA^@A { ā'ŸāAžāYb' | žā [AYāāžŸbābāžAUá | ž@ā'b [DAYā^bāž@AUāž@DA^@AYā [Abā'@ZA~Y@b [ĒAUāž@āA { ā^AZA  
ā^Ab@žā~žŸbAbā'āAT~@'bA^aAUāžA & Y [AYžAāžžā'āA | 'ā^Yb'^āA^aAbā'āA0PAS^á'Ÿ [Ē

**. ; | ) \* +.3.9.438**

& | ) ? R ? É A

¡ 541. (> \*1&' 47&9.43

&¡ &AACQQÉĀĹŸŸŽāābĀāĀĀ&ŽĀŌPĀŠŽāĀ\ @ŸŽāĀ'āĀŽāb@ŸbŽZAbĀā~ŽŸ'aŸĀ~Āā'b'ĀāĀĀ@Ā\ ābāYĀĀ  
ZŽbŽ&'āZZĀY[AbāŽĀY~@^~@ŸbŽĀā\ āŸb'ĀāYā\ ā'baāŽYZĀĀĀ\ āŸb'ĀāYā\ ā'baāŽYZāāā\ āZZŽbŽ&'āŽĀ  
YāZĀY\ bāĀ' ] ŽābāŽĀY~@^~@ŸbŽĀZā@ŽZĀĀĀYŸŸŽāāĀĀ@ŽŸŸāĀ&Ž&ŸŽ@ĀĀbāŽ@Ā\ ā'bāDAYāZāāĀ\ āZĀ  
~@^| ŽZĀ\ ā'bĀ&Ž&ŸŽāā { 'bāYZZ\* \ ŸbŽĀĀ@ ŽābŸb'ĀāYāZAb@Ÿ'ā'āā@ŽāY@Z'āābāŽĀY~@^~@ŸbŽĀ\ āZĀ  
ĀĀYāāŌPĀŠŽāĀ\ @ŸŽāĒĀUā'āāŌPĀŠŽāĀ\ @ŸŽāĀ\ bā'ZŽĀĀbāāŽāĀŸ~ŽĀĀYŸŸŽāāĀ@ŸābŽZĀY[AbāŽĀ  
Uā' | Ž@ā'b [ĀĀ@AYbbŽ&~b'āāAbĀĀŽ} ŸŽZĀ@Žāb@Ÿb'ĀāĀĀĀYŸŸŽāāĀ'āYĀāŽ@'Ā\ āĀ | 'ĀāŸb'ĀāĀĀbāā'āSĀ'Ÿ [Ā  
YāZĀ&Y [Ā~ĀbŽāb'Yāā [ĀŽYZAbĀŸ@' &'āYā~@ĀāŽŸ\ b'ĀĒ

' ¡ 9CAFLGA?J ?LB (MLRCLR' ?QCB 7CQRPGARGMLQÉĀPāāŽĀUā' | Ž@ā'b [Ā@ŽāŽ@ | ŽābāŽĀ@'āābAbĀĀ  
' &~ĀāŽAbŽŸāā ŸŸĀĀ@Žāb@Ÿb'ĀāĀĀĀbāāŽĀYŸŸŽāābĀĀ'bāāāŽb { @ĀĀ'āĀ { Y [ āAbāYbĀ&Y [ĀZ'ā@ \ ~bAbāŽĀ  
YŸ'ā'b [AbĀĀ\ b'ā' ] ŽŸŸ@bY'āAZŽ | ŸŽāDA~@ĀĀ&ŸĀDAYāZĀ~@Āb'ŸĀāĒĀLZZ'b'ĀāYāā [DĀbāŽĀUā' | Ž@ā'b [Ā  
Ž]~@Žāā [Ā@ŽāŽ@ | ŽābāŽĀ@'āābAbĀĀ' &~ĀāŽĀŸĀābŽābĒŸYāŽZĀ@Žāb@Ÿb'ĀāĀĀĀbāāŽĀ\ āŽĀĀ'bāŌPĀ  
ŠŽāĀ\ @ŸŽāĒĀT\ ŸĀĀ@Žāb@Ÿb'ĀāĀ&Y [ĀŸŽĀāŽŸŽāāY@ [AbĀĀ~@ĀbŽŸbāāŽĀUā' | Ž@ā'b [ĀYāZĀ bĀĀ  
ŸĀāāb'b\ ŽābāĒĀPāŽĀUā' | Ž@ā'b [Ā@ŽŸĀā' ] ŽābāYbAYŸŸZŽ&'ŸĀ@ŽZŽĀ&ĀYāZAbāāŽZŽĀ&ĀĀĀ'ā\* \ @ [Ā  
Y@ŽĀ' &~ĀĀbYābĀ | Yā\ ŽābāYbĀ&Y [ĀŸŽĀā'āZŽ@ZZĀY [ĀYĀĀ | Ž@ ] ŽŸĀĀ\ āĀ@Žāb@Ÿb'ĀāĀĀĀŸĀābŽābĒ  
PāāŽ@ŽāĀ@ŽDAYā [ĀŸĀābŽābĒŸŸāāŽZĀ@Žāb@Ÿb'ĀāĀāŸāŽ&ŽĀ' &~ĀāŽZĀĀĀŌPĀŠŽāĀ\ @ŸŽāĀ { 'āā@Ž\* \ @ŽĀ  
Y~@^~@ŸbŽĀŸŸĀS@Žā'ZŽābAY\ bāĀ' ] Ÿb'ĀĒ

( ¡ &AACQQ (MBCQÉĀUāāŽ@ā& \ ābAbYāēŽ~@ŽŸŸ\ b'ĀāĀĀĀ~@Ž | ŽābĀ\ āY\ bāĀ' ] ŽZĀ\ āZĀĀbāāŽ@Ā  
YŸŸŽāāĀŸZŽĀĀ~Yāā { ^@ZāĒĀUāāŽ@ā { 'āāŸĀāāŽāZĀYŸŸĀ\ ābYŸāŽĀĀ@ĀYāāYŸb'ĀāĀ~Ž@Ā^@ &ŽZĀ  
\ āZŽ@Abāā' @AYŸŸŽāāĀŸZāDA' āŸā\ Z'āāAbĀĀāZ~Ž@Ā^@ &ŽZĀY [ĀĀbāŽ@'āZ' | Z\ YāāAYĀĀ@Žā\ ābĀĀĀ  
āāā'āāŽāŸĀ'āĀ~@ĀbŽŸb'āābāāŽĀŸZāĒ

) ¡ 5PQT?AWÉĀUāāŽ@āY@ŽĀĀŸ'ā'āYbŽZAbĀĀŽā~ŽŸbAbāāŽĀ~@' | YŸ [ĀbāYbĀĀbāāŽ@ĀUāāŽ@āĀY | ŽĀ'ābāāŽ@ĀĀ { āĀ  
ā [ābŽ&āDĀNŸbYDAYāZĀYŸŸĀ\ ābāĒĀPā\ āDĀ'ā'āĀYĀ | 'ĀāŸb'ĀāĀĀbāā'āSĀ'Ÿ [ĀĀ@ĀYā [ĀUāāŽ@ĀĀŽāāYāŽĀ'āĀ  
ŽāŽŸb@Ā'ŸĀāāĀ~'āāDĀĀĀĀĀĀĀ&~ā' [ĀŌPĀŠŽāĀ\ @ŸŽāĀĀ@AbāāŽĀ~\ @~ĀāŽĀĀĀ~@ [ 'āā'ābĀĀbāāŽĀYāY'@āĀĀĀ  
ĀbāāŽ@āDĀĒŽĒDĀĀYŸŸŽāāĀ@ĀYbbŽ&~bAbĀYŸŸŽāāĀāŽŸb@Ā'ŸĀā'āZāDAĀĀĀĀāābYāāĒ\ b'ā' ] ŽĀ' &YāžĒY\ Z'Ā  
@ŽŸĀ@Z'āāAZŽ | ŸŽāDA { 'bāĀ\ bĀ~@^~@Ž@AY\ bāĀ' ] Ÿb'ĀābĀĀZĀĀĀĀĀĀĀāāŽā\ āŽĀŸ\ ā'āāā~\ @~ĀāŽĀĀĀĀ  
bāāŽĀUā' | Ž@ā'b [Ē

UāāŽ@āāĀ\ āZĀŸĀY { Y@ŽĀbāYbAbāāŽĀUā' | Ž@ā'b [ĀŸŸāāĀbĀā\ Y@ŸbŽZĀbāāāŽŸ\ @'b [ĀYāZĀ~@' | YŸ [ĀĀĀŌPĀ  
ŠŽāĀ\ @ŸŽāDAYābāāŽ@Ā\ āZā&Y [ĀĀbĀYā { Y [ āĀŸĀŸĀ&~āŽbŽā [Ā~@' | ŸbŽĒĀĀ@ĀZ} Y&~āZĀ'āā\ YāŸĀĀĀYĀ  
~Yāā { ^@ZĀĀĀĀbāāŽ@Ā&ŽŸāāĀĀYŸŸŽāāĀ'āAbĀYāā\ @ZĀY~@^~@ŸbŽĀŸĀā'ZŽāb'Yā'b [ĀĀĀUā' | Ž@ā'b [Ē  
@ŽāYbŽZĀ'āĀ^@ &Ÿb'ĀāYāZĀā'āZāĒĀĀZĀĀĀĀĀĀ\ Y@ŸbŽZĀ~@' | YŸ [Ā'āĀYāāYŸāāZāDAŽā~ŽŸŸāā [ĀĀ@Ā  
~Ž@āĀYāĀĀ\ āāY { ā\ āĀ\ āZĀĀĀŌPĀŠŽāĀ\ @ŸŽāĒĀPāāŽĀUā' | Ž@ā'b [Ā&Y [Ā&Ā'ĀĀĀŌPĀŠŽāĀ\ @ŸŽāAbĀĀ  
Žāā\ @ŽābāYbAbāāŽ [ĀY@ŽāāŽŸ\ @ŽĀYāZĀŸ'āā\ āZĀ'āYĀĀĀ^@ &'b [Ā { 'bāĀbā'āĀŌPĀSĀ'Ÿ [ĀYāZĀĀbāāŽ@Ā  
Uā' | Ž@ā'b [Āā\ 'Zā'āZāĒĀPāāŽĀUā' | Ž@ā'b [DĀbĀĀbāāŽā] bŽābAYāā { ŽZĀY [ĀY~@'ŸŸŸāZĀY { DĀ@ŽāŽ@ | ŽābāāŽĀ  
@'āābAbĀĀŽ} Y &'āZĀ\ āZDAYāZĀZ'āŸĀāZĀYā [ĀNŸbYĀĀĀ\ āZĀĀĀbāāŽĀUā' | Ž@ā'b [ĀĀŌPĀŠŽāĀ\ @ŸŽāĀĀĀbāāŽĀ  
~\ @~ĀāZāĀĀĀ\ @bāāŽ@'āāAbāāZāāZĀbāDĀĀYāāŽb [DĀZ'āŸ'~ā'āZĀāāŽŸ\ @'b [DĀĀ@Ā~@^~@Ž@b [Ā@'āābĀĀĀYā [ĀĀbāāŽ@Ā  
UāāŽ@DA~Ž@ā'āDĀĀĀZāb'b [ĒĀĒ.ā [ĀNŸbYĀbāYbAbāāŽĀUā' | Ž@ā'b [ĀāYbāāŽ@āĀĀ^@Āā\ ŸĀā~Ž@ &'āā'YāZĀ

Ÿ^aa'ãbZâbA { 'bâAbâZAUâ | Ž@ã'b [ĤâATŽâã'b' | ŽAÑYbYAÀATŽŸ\@'b [AS^à'Ÿ [DAUSE ÎÉËËÉÉÉâ^AbâZAZ }bŽâbA  
bâŽ@ŽA'ãAYâ [A \ áŸŽ@bY'áb [AYâAb^A { âžbâž@AYâ [AÑYbYAŸ^âãb'b \bŽâATŽâã'b' | ŽAÑYbYDA'baââYââYŽA  
b@ŽYbŽZAYâATŽâã'b' | ŽAÑYbYA \ âb'âYAZŽbŽ@ & 'âYb'^âA'âA & YZZÁY [AbâžANÔRAYâZACE \ âŸb'^âYâAUâ'bA  
âŽYZDA'âAY^âã \ âbYb'^âA { 'bâAbâZAUâ | Ž@ã'b [ĤâARaa'ŸŽA^aOŽáYâAŁ.aaY'@âÉ

**+I ; GMJ?RGML MD 1?U**

- I 2 ? JGAGMSQ 8MDRU?PCÉAòbA`āAbāŽA@Žā~^āā`Ý`ā`b[A^aAYāāUāŽ@āAb^AbYæŽAY~~@^~@`YbŽA

3i 8?LARGMLQÉACEY'á \ @ŽAb^AYZažbŽAb^Abāžā~^á'Ÿ'ŽāYŸAa@Žā \ abA'áAbāžāā \ ā~žāā' ^áA^aAŌPA  
Šžā^\ @ŸžāA~@'| 'ážāžāDAZ'āŸ'~á'áY@[AYŸb'^áāAYāZA~^āžŸ\ b'^áA \ ážž@AābYbžAYāZAžžžŸŸYāāY { āA  
{ ážāAY~~á'ŸŸŸāžÉA bāžAUá | Ž@ā'b [A & Y [A@žāb@'ŸbA^@Aā \ ā~žāZAUāž@A~@'| 'ážāžā~žāž'ááA  
'á | Žāb' áYb'^āAYāZAZžbž@ & 'áYb'^āA^aAbāžAYāāžāžZA | 'áYb'^āAāBÉAŌāAbāžāž | ŽābA^aA@žāb@'Ÿb'^āA^@A  
ā \ ā~žāā'^āA^aAŌPA Šžā^\ @ŸžāA~@'| 'ážāžāDAYA@žŸā^áYŸāžāžā^@bA { 'āāYžA & YžžAb^A  
YŸŸ^& ^ZYbžAbāžAYŸŸžž & ŸAŌPA Šžā^\ @ŸžāAāžžžāA^aAbāžAUāž@AZ \ @'āāAbāžA'ā | Žāb' áYb'^āÉA  
Uá | Ž@ā'b [AāYāYb'^āāAY@žA' & ~^āžžAY [AbāžAY~~@^~@'YbžAUá' | Ž@ā'b [AY \ bā^@'b [AYāZA & Y [A  
'áŸā \ žžA@ž' & Ÿ \ @āž & žābAb^AbāžAUá | Ž@ā'b [Aa^@AbāžAŌPA Šžā^\ @ŸžāDAāž@ | 'ŸžāAYāZA~ž@ā^āžāA  
ŸaY@āžā'áŸ \ @žžA'āAZžbžŸb'āāAYāZA~@^| 'āAbāžA | 'áYb'^āAYāA { žāAYāAa@^& AbāžA | 'áYb'^āA  
'bāžāāÉA Šž' & Ÿ \ @āž & žābA & Y [A'áŸā \ žžAY^& ~žāāYb'^āAa^@AābYaaA { ^@āAb' & žA@žāYbžžAb^AbāžA  
| 'áYb'^āAYāZAa^@AY'Ÿá' | 'āāA'āa^@ & Yb'^āA@žāYbžžAb^AbāžA'áŸ'žžābÉ

4i 3ML^ < ?GTCPEÁL AaY'á \ @ŽAb^Ažāa^@ŸžAYá [A~@^| 'á'^āA^aAbā'āA~^á'Ÿ [AZ^žāā^bāŸ^āāb' b \ bžAYA { Y | ž@a  
^aAāYZA~@^| 'á'^āA^@AYāA' & ~āžžAžāZ^@āž & žābA^aAYā [AYŸb' | 'b [AbāYbA { ^ \ áZA^bāž@ { 'āžAY^āāā'ŸbA { 'bāA  
bā'āA~^áŸ [É

# 8CLQGRGTC ) ?R? ?LB 8CASPGRW 5MJGAW

.i 541. (> 89&9 \* 2 \* 39

pāžAYŸ'á'b [Ab^AY^āžŸŸbAYāZA~@^Ÿžāā'āa^@ & Yb'^āAa^@AYZ & 'á'āb@Yb' | žAYāZAYŸŸžž & ŸA~ \ @~^āžā'āAY@'b'ŸYāAb^A  
bāžAUá' | Ž@ā'b [āA & 'āā'^āÉAŌāa^@ & Yb'^āAŸ^āžžŸbžžAYāZA~@^ŸžāāžžA & Y [A'áŸā \ žžA~ž@ā^āYā'āa^@ & Yb'^āA  
@žāY@Z'āāAāb \ žžābDAž & ~ā^ [žžāA^@AYá \ & 'āÉAUāž@āA^~ž@Yb'āāA^@A \ b'á' ] 'āāŌNUAŸ^& ~ \ b'āā@žā^\ @ŸžāAY@žA  
@žā~^āā'Ÿāžā^@A & YāYá'āāAYāZA & Y'ábY'á'āāAbāžāžŸ \ @'b [A^aAbāžāZYbYDAŸ^& ~ \ b'āā@žā^\ @ŸžāAYāZA

( I SšZYžA@žāž@Ab^A0āa^& Yb^'āAbžYāā^ā[AŠžā^ \ ŸžāAS^ Ĩ [Aa^@AYāa^bāž@A  
Zžā^'b^'āāĚ

. ; | 541. (> \* 1& ' 47&9.43

&I +SLARQML?J : LGR 7CQNMLQ@GJGRWÉACE \ aŸb^'āYāA \ ā' bAāžYZāAY@žA@žā~^āā' YāžA^@A  
' & ~āž & žāb^'āāY~^@~@ \ YbžA & YāYāž@' YāDA^~ž@Yb^'āāDA~ā [ ā' ŸYāDA YāZAbžYāā' ŸYāY^'āb@^āāAa^@A  
YŸYžāāAb^DA \ āžA^aDAb@Yāā & 'āā^'āA^aDA YāZAZ' ā~^āYāA^aZYbYā' āAY^& ~ā' YāžA { 'bāAbā' āAS^' Ĩ [ÉAbā' āA  
@ž\* \ 'ž & žābā' āāžā~žY' Yāā [A' & ~^@b YābAa^@Abā^āžAY^& ~\ b^'āā@žā^ \ ŸžāAbāYbAā \ ~^@bA^@Aā^ābA  
Ÿ@'b^'YŸāY \ ā' āžāāA \ āŸb^'āāA^@ATžāā' b' | žAŸYbYĚ

' I 8CLQGRGTC ) ?R?ÉAT^ & žAž} Y & ~āžāA^aATžāā' b' | žAŸYbYā' āYā \ žžIāā' Ÿ' YāāžŸ \ @' b [A \ & Yž@āDA  
Z@' | ž@Aā' YžāāžA \ & Yž@āDAY@žž' bAYŸ@žA^@A^bāž@Aa' āYāŸ' YāAYŸY \ ābAā \ & Yž@āDAÓNUAÓŸAā \ & Yž@āDA  
~^@bžŸYžžAāžYābāA' āa^@ & Yb^'āāDAā' āYāŸ' YāZYbYDAžž \ ŸYb^'āYāA@žŸ^@žDA' ābžāžŸb \ YāA~@~ž@b [A^@A  
@žāžY@ŸA@žŸ^@žDAZ^ā^@A~@^a' žžDA^@AYā [A' āa^@ & Yb^'āAbāYbAY^ \ āZ@žā \ ābA' āAYa & Ybž@' YāA@' āāA^aA  
' žžāb' b [AbāžAbDAYA | 'ā' Yb^'āA^aACEOŠSŁ DAÓŠSŁ A^@AÓÓMŁ DA^@A^bāž@ { 'āžāY@ & AbāžAžā' b' & YbžA  
ā' āYāŸ' YāYāZAbž~ \ bYb^'āYāA' ābž@žābA^aAbāžAUā' | ž@ā' b [A' aA \ āY \ bā^@' ] žžAYŸžāā' āA~ž@ & 'bbžžDA  
{ āžbāž@A' ābžāb^'āYāā [A^@A \ ā' ābžāb^'āYāĚ

( I 8CASPc 8RMP?ECÉATžŸ \ @žAāb^@YāžA' āAY | Yā' YŸžA^āAUā' | ž@ā' b [A~@^ | 'žžAāžb { ^@āAYbbYŸāžžA  
āb^@YāžIāāžÉāÉDAÁREZ@' | žÁBÉAŁ āāATžāā' b' | žAŸYbYā' āAb^AYžAAb^@žžAž' bāž@A^āAbāžāžb { ^@āAYbbYŸāžžA  
āb^@YāžA^@A { 'bā' āA^bāž@AY \ bā^@' ] žžA' āāb' b \ b^'āYāžāž@ž@~@' āžAā [ ābž & AāžÉāÉDAMYāāžžDAŁZ' @^āZYŸāDA  
žbYÉBÉATb^@YāžA^āAYASNDāž' bāž@AUā' | ž@ā' b [A^@ { āžžA^@A~ž@ā' Yāā' āA^ābAY^'āā' žž@žžAžŸY \ @žA  
 \ āžžāābāžāY@ZAZ@' | žA' āA~@~ž@ā [AžāŸ@ [~bžžĚ

) I ) MULJM?BGLE ?LB 9P?LQNMPRGLEÉATžāā' b' | žAŸYbYā & Y [Aā^bAYžAZ^ { āā^YžžžAb^@A  
b@Yāā~^@bžžA^āAYā [AS^@bYŸžATb^@YāžAŸŸ' | ŸžAYāZAPžžYÉAbā' āAY~~ā' žžAb^AY^bāA^āÉŸY & ~ \ āA  
YāZA^aEŸY & ~ \ āAZ^ { āā^YZ' āāAYāZAb@Yāā~^@bYb^'āÉAŁ āā^ābžžA' āAbā' āAS^' Ĩ [DAāžŸ \ @žāžb { ^@āAYbbYŸāžžA  
YbbYŸāžžAāb^@YāžA' āA~@^ | 'žžAa^@Abā' āA~ \ @~^āžÉATžāā' b' | žAŸYbYā & Y [AYžAZ^ { āā^YžžžAYāžÉ^@A  
b@Yāā~^@bžžA^āā [A { 'bāA~@^@A { @' bbžžAY^'āāžžAb^aAbāžAY~@~@' YbžAÚ' ŸžASžā' žžābÉAbā' āAY^'āāžžābA  
{ 'āāA^āā [AYžAā@YābžžA^āAYAbž & ~^@Y@ [DAŸYāžÉŸ [EAŸYāžAYā' āĚ

\* I : QC MD 2CBG? MP \* OSgNKCLRÉAUāž@āAY@žAb^AYŸžāāAUā' | ž@ā' b [A' āa^@ & Yb^'āA^āA  
Uā' | ž@ā' b [EA^ { āžžA & žž' YA^@Až\* \ '~ & žābÉAŁ āā' āa^@ & Yb^'āāAb^@žžA^āAUā' | ž@ā' b [A^@ { āžžA  
ž\* \ '~ & žābDA' āŸā \ Z' āāAY \ bAā^bAā' & 'bžžAb^ASNDāāž@ | ž@āDA YāZāžb { ^@āAYbbYŸāžžAāb^@YāžDA' āA  
Ÿ^āā' žž@žžAbāžA~@~ž@b [A^AbāžAUā' | ž@ā' b [ÉAUāž@āAY@žAā^bAb^Aāb^@žDAŸ^ & \ ā' ŸYbžDAb@Yāā~^@bDA  
^@A~@^ŸžāāUā' | ž@ā' b [A' āa^@ & Yb^'āA^āA~ž@ā' Yāā [A^@ { āžžA & žž' YDAžž | ŸžāDA^@AY^& ~ \ bžžāA  
{ 'bā \ bA~@^@A { @' bbžžAY~@~@ | YāAa^@ & AbāžAY~@~@' YbžAÚ' ŸžASžā' žžābAYāZAbāžAY~@~@ | YāA^AbāžA  
~ž@ā^āYāAž\* \ '~ & žābAY [A0āa^@ & Yb^'āAbžŸāā^ā[A Tž@ | ŸžāAĀÓPTBÉA0āa^@ & Yb^'āA^āAUā' | ž@ā' b [A  
^@ { āžžA~^@bYŸžAZž | ŸžāAā \ YāAYāAāYāāAZ@ | žāDAZ' āāDA^@AāY~b^~AY^& ~ \ bžžāA & \ ābAYžAāb^@žžA' āA  
~ā [ā' ŸYāā [AāžŸ \ @žAā^ŸYb^'āāAYāZa & \ ābAā^Ab^AYžAb@Yāā~^@bžžA { 'bā^ \ bAžāŸ@ [~b^'āAbāžAZYbYA  
 \ ā' āāAUā' | ž@ā' b [AY~@~@ | žžAā^Ab { Y@žAYāZAbžŸāā' \* \ žāĚ

+I \* LAPWNRGMLI T^Ab { Y@žDA~^ā' Ÿ' žāDAYāZA~@^Ÿžž \ @žAa^@AžāŸ@ [~b^'āāATžāā' b' | žAŸYbYāY@žA  
Ÿ \ @žābā [AYž' āāAZž | žā^~žžAYāZAZž~ā^ [žžAY [AbāžAUā' | ž@ā' b [ÉAŸ \ žAb^AbāžAāŸY^~žA^Abā' āA { ^@āAYāZAbāžAYāYāā' āāāYb \ @žA^AbžŸāā^ā^ā [A' ā | žāb^@ [DAbāžAZž~ā^ [ & žābA^aAžāŸ@ [~b^'āā' āAYāA  
^āā^' āāA~@^ŸžāāĚ

, i 4FGM 'PC?AF 3MRGDGA?RGML &ARi pāŽARá^AM@ŽYŸaAQ^b^a^YŸb^āāŁŸbA@Ž\* \ 'ŽāA~@^&~bA  
ā^b^a^YŸb^āāAb^A^āZ'|Z\YāāA { ā^āŽA~Žā^āYāA^āa^@&Yb^āāAYāYŽŽāAŽ}~āŽZA^aAbāŽA^āY^ŽŽābA  
Y^ \ āZAāŽYZAb^Aa@Y\ZA^@A^ŽŽāb^b [ AbāŽābÉAŁā [Aā^āāA^aATŽāā^b | ŽAŸYbYDAZ^āYā^ā \ ŽA^aATŽāā^b | ŽA  
ŸYbYAb^A^āY \ bā^@^ ] ŽZA^āZ | Z \ YāāA^@Aā \ ā~ŽYbŽZA&^ā \ āŽA^aATŽāā^b | ŽAŸYbYA& \ ābAYŽA  
' & ŽŽ^YbŽā [A@Ž~^@bŽŽAb^AbāŽARaa^YŽA^aAbāŽANÔRÉ

- i 'PC?AF MD RFGQ 5MJGAWi Ú^àYb^āA^aAbā^āAS^ā^Y [A { 'āāYŽA | Ž { ŽZAYāAYAāŽ@^ \ āAZ^āY^~ā^āY@ [A  
^aaŽāāŽAYāZA { 'āāYŽAYZZ@ŽāāŽŽAbā@^ \ āāAbāŽAY~@^@~@YbŽAÚ^YŽAS@Žā^ŽŽābAYāZAbāŽARaa^YŽA^aA  
Ô \ & YāAŠŽā^ \ @YŽāÉAÚ^āYb^āāA^aAbā^āAS^ā^Y [A & Y [AāŽYZAb^AZ^āY^~ā^āY@ [AYŸb^āāA \ ~Ab^AYāZA  
'āYā \ Z^āáZ^ā&^āāYāDAŽ}~ \ āā^āDAYāZÉ^@AāŽāYāYŸb^āāÉAN \ @@ŽābACE \ āYb^āāYāUA^bA~@YŸb^YŽāA^@A  
~@^YŽŽ \ @ŽāAāāYāāAYŽYZY~bŽŽAb^AY^&~ā [A { 'bāAbā^āAS^ā^Y [É

**.39 \* 75 \* 7843&1 ; .41 \* 3 ( \* 541.( >  
&i 5MJGAW**

âY&ŽËÿÿââ'ââDAÝŽâ'bbâ'ââDAbâ@ŽYbŽâ'ââA|'âŽâÿŽDAâbŽÿâ'ââA&^âŽ[DAZZâb@^['ââA~^ââŽââ'^ââDA  
'â^âYb'ââDA^@Aÿ^&&'bb'ââAâŽ}\YâA|'âŽâÿŽËAŠŽâYb'ââââ'~A|'âŽâÿŽAÿÿYâA^ÿÿ\@AÝŽb{ŽŽâAÿÿâ\YâA^@A  
'âb'&YbŽA~Y@bâŽ@âA^aAbâŽAâY&ŽA^@A^~^â'bŽAâŽ}DAa^@&Ž@A~Y@bâŽ@âDA@^&&YbŽâDA^@AaY&'â[A  
&Ž&ÿŽ@âÉ

**8R?JIGLE** 'âAÿA~YbbŽ@âA^aAb{^A^@A&^@ŽA'âÿ'ZZâbâA^aA\â{YâbŽZAYbbŽâb'^âDAâY@Yââ&ŽâbDAÿ^âbYÿbDA^@A  
^bâŽ@Aÿ^âZ\ÿbAZ'@ŽÿbŽZAYbAYââ~Žÿ'a'ÿA~Ž@â^âAbâYbA{^âZAYÿ\âŽA@Žÿâ^âYÿâŽA~Ž@â^ââAb^AaŽY@AâY@&A  
b^AbâŽ'@A~â[â'ÿÿâAâŽÿâbâDA&ŽâbYâA^@AŽ&^b'^âYâAâŽÿâbâDAâYâŽb[DAa@'ŽâZâDAaY&'â[A^@A~@^~Ž@b[É  
TbYâæ'ââA&Y[A'âÿâ\ZZDAÿ\ba'âAâ^bAâ'&'bZZAb^DAbŽâŽ~â^âŽAÿÿââDAbŽ}ba&ŽââYá'ââDAâ^ÿ'YâAâŽb{^@æ'ââDA  
'ââbYâbA&ŽââYá'ââDA&^â'b^@'ââAÿŽâY|^@DAÿŽ'ââA'âA~â[â'ÿÿâA~@^}'&'b[Ab^AbâŽA~Ž@â^âDA^@AbYæ'ââA  
~ÿb\@ŽâÉ

**8CVS?J - ?P?QQKCLR** &ŽÿââAÿâ[A\â{Žâÿ^&ŽAâŽ}\YâAYZ|YâÿŽâDA@Ž\*\ŽâbâAa^@AâŽ}\YâAaY|^@âDA



āž} \ YāYŸb' | b [ÉAT' & aY@ [DA~Yābāž} \ YāY'āāžābAZ'žāā^b' & ~ā [Aa \ b \ žAŸ'āāžābÉ

( ?N?AGRW DMP (MLQCLR

'S ŌāŸY~YŸ' bYb' ^ā'āAZZa' āžžAYāYŸ' āā' āAYāAbYbžA' ā { ā ŸāAYā~žā^āā \ aa Ÿ'žābā [AāŸŸāābāžA Ÿ'āā' b' | žAYŸ' ā' b [Ab^A@žYā' ] žAbāYbAbāžā' b \ Yb' ^ā'āāž} \ YāDA^AŸYāā^bAY~žŸ' YbžA ā@Yb' ^āYāā [AYāZa@žYā^āYŸā [BAbāžāYb \ žAYāžÉ^Až} bžābA^AbāYbāā' b \ Yb' ^āÉ

(S N^āāžābAYāA^ā [AYžAá' | žāY [Abā^āžA { 'bāAYŸ~YŸ' b [Ab^AY^āāžābÉA P' ā^ā [^ \ āāžā bāYāÉHAZ^A^AbāY | žAbāžAYŸ~YŸ' b [Ab^AY^āāžābAb^Aāž} \ YāAYŸb' | b [ÉACE^AYZ \ ābāDAŸY~YŸ' b [Ab^A Ÿ'āāžābā' āA^āAYāYāžAY [AYŸYāžAYā' āÉA PžābYāā [AZ'āYŸāžZA~žā^āāAYāZA~ā [ā ŸYāā [A 'āYŸ~YŸ' bYbžZA~žā^āā & Y [A^AbāY | žAbāžAYŸ~YŸ' b [Ab^A^ | žAY^āāžābÉARāžA & Y [AYžA 'āYŸ~YŸ' bYbžZAbž & ~^@Y@' ā [AYāAYa@žā \ ābA^aA & žābYāā āāžāāDA \ āŸ^āāY' ^ \ āāžāāDA^AYāAYā @žā \ ābA^aAYāŸ^ā^ā^A^bāžAZ@ \ āY^āā \ & ~b' ^āÉ

)S RāžA & Y [A^AbāžāYāžA' āāž} \ YāAYŸb' | b [A { 'bāAYābāžA~žā^āā { āžāāžAāā { āA^AbāYā @žYā^āYŸāžAYŸ āžAb^AYžāž | žAbāYbA~žā^āAb^AYžA' āYŸ~YŸ' bYbžZA \ žAb^AYāŸ^ā^A^AbāžA Z@ \ āAY^āā \ & ~b' ^āA^AbāžA@žYā^āāÉA bYāžā' āAY^ābž} bDA^A & žA' āžYŸb^ā^A^Abā' āā' YāžA 'āYŸ~YŸ' bYb' ^āA & Y [A' āŸā \ žžDAY \ bAY@žā^Abāā' & 'bžAb^AbāžA^āā { 'āāI \ ^ & 'b' āāDAā \ @žZA ā~žžYāDAžžY@žYāžZA & ^b^AAY^A' ž' āYb' ^āDA \ āŸ^āāY' ^ \ āāžāāDAžž@Yb' Yā^Až} bžž & žAYžāY | ^@DA āā { āžžAžA^a~žā^āā^āY^āā \ & ~b' ^āDA^AYā^Ažā^Abāž | žāÉ

( MCPAGML

N^āāžābA { ā Ÿā' āA^YbY' āžžAbā^ \ āābāžA \ āžA^aA@Y \ ZA^@A^@ŸžDA { āžbāžAŸ [A~ā [ā ŸYāAa^@ŸžDA bā@žYbāDA' āb' & žYb' ^āA^AŸ^Až@Ÿ' ^ā' ā' ā | YāžÉ

( I &NNJGA?@GJGRW

pā āA~ā' Ÿ [AY~ā žāAb^AYāāAŌ^āāNY@^āāUā' | žā' b [Aāb \ žžAbāÉA \ āāAb \ žžAbāAY@žāžāŸ \ ^YāžžAb^A @ž~^@bAYāāžāžZA' ābž@~žā^āYāA | ^āžāŸA^āāžāāžāāAYāA^āā ŸāžÉAŌābž@~žā^āYāA | ^āžāŸA ^āāžāāžāA & Y [AYžA@ž~^@bžZA { āžbāž@Abāž [AŸYŸ' @žžA^āAYŸ & ~ \ āDAYbAYUā' | žā' b [Aā~āā^āžZA ž | žābDA^A^āAYŸ & ~ \ āA' āŸā \ ž' āāAb \ ž [AYŸ^AYZDA' ābž@āā~āDAYāZA' & žā' ā' āāž} ~žā' žāŸāÉ

) I (MLDGBCLRG?JGRW ?LB 7CNMPRGLE

p^AbāžAž} bžābA~āā ŸāžDAbāžAUA' | žā' b [A { 'āāA & Y' ābY' āAbāžAY^āā žžāb' Yā' b [A^aYāā~Y@b' žāā' ā | ^ā | žžA' āA YāāžāžZA' ābž@~žā^āYāA | ^āžāŸA^āāžāāžāāAN^āā žžāb' Yā' b [DA^A { ž | ž@DAYŸāā^bAYžA \ Y@YābžžžÉA Uāžž@ARā' ^āY { DA~žā^āāA { ā^Aāā { AbāYbAYāāžA^ā [AāYāYžžāAY^A & 'bbžZA & \ ābA@ž~^@bAbāYbA 'āA^ & Yb' ^āAb^AāY { Ažāa^@Ÿž & žābÉACE^AbāYbA@žYā^āDAYāāUā' | žā' b [Až & ~ā^ \ žžāāž} Ÿā \ ž' āā' ŸžāāžZA ~^@āžāā' ^āYāāA^ & AbāžAUA' | žā' b [AN^ \ āāžā' āāANžābž@AYāZA~Yāb^@YāY^ \ āāžā^āANW' žžÉA~@žābā YŸb' āāAYāA~Yāb^@YāY^ \ āāžā^@āXBA & \ ābAY^ & ~ā [A { 'bāAbā' āA~ā Ÿ [ÉAbāž@žA^@žDAž & ~ā^ \ žžāA & \ ābA Ÿ^ābYŸbAŌ^āāNY@^āāS^ā ŸžANž~Y@b & žābA^@AbāžAUA' | žā' b [AŌž' āābāS^ā ŸžANž~Y@b & žābA { āžāYāA YāāžāYb' ^āA^AYāA' ābž@~žā^āYāA | ^āžāŸA^āāžāāžāYāAYžžA & YžžÉ

Tb \ žžābāA { ā^Až} ~žā' žāŸA' ābž@~žā^āYāA | ^āžāŸAYŸYā & žžbA { 'bābāžAS^ā@Y & AN^@ž' āYb^@Aa^@A bāžAUA' ^āžāŸASž | žāb' ^āAYāZAL Ÿb' ^āANžābž@Ab^AZ' āŸ \ āāAYāā' b \ Yb' ^āAY^āā žžāb' Yāā [DA { ā ŸāA & žYāā bāYbAbāžAUA' | žā' b [A { 'āāā^AbA~ \ ā \ žAYāā' ā | žāb' āYb' ^āA^AbāžAYŸā' āA^AY^āā žžāb' Yāā' āA^ & Yb' ^āA āāY@žZA { 'bāAbāžAUSLNAŸ^@ž' āYb^@A' AbāžAāb \ žžābAZ' žāā^AbA { 'āAb^AZ^āāÉAbāžAUSLNA Ÿ^@ž' āYb^@A' āā^AbAYāžāYāā [A~@' | āžāžAY^āā žYābDA^āAbāž [AY@žAāb' āā@ž\* \ @žžAb^A@ž~^@bAYŸā' Ÿāā^āÉ 'žžāb' ā | āā' āA^ & Yb' ^āAb^AāY { Ažāa^@Ÿž & žābAYāZA & YāžA~žā' ^Z' Yāā^āÉ žžāb' ā [ 'āāā \ & & Y@žāA^AbāžA Ÿ@ & žāA^ŸŸ \ @āā^āAYŸ & ~ \ āAb^AbāžAb' bāžAŌUAY^A@ž' āYb^@É

\* I .K KSLGRW 5PMTGQGML

Ōāž' | ž' YāāA@žŸŸ' ~žābāA^AbāžAYžāY | ^@AYāžÉ^@Abā^āžAYāā' āb' āāA@žŸŸ' ~žābāBA { ā^A@ž~^@bA 'āŸžžābA^ā' ābž@~žā^āYāA | ^āžāŸA { ā ŸāA^AYŸ \ @A { ā žāžāžāāžā' āAžāāYāžZA' āā \ āžž' YāžA ž@' āā' āāA^@āā Ÿ' bAZ@ \ āA \ āžA { 'āāā^AbYžAāžāZAbžā~āā ŸāžAa^@A | ^āYb' āāAbāžA \ ā | žā' b [AYāŸ^ā^AbA YāžÉ^@AZ@ \ āA~ā Ÿ | É

**+I 7CR?JG?RCML**

pāŽAUā | Žāb [Aāb@Ÿbā [A~@^ā ŸbāA@ŽbYā'Yb'^āY [DAa^@DA^@AYáY'āābAYā [A~Y@b'Ÿ'~YābAĀŸ^&~āY'āYābDA  
@ŽŸ'~ŽābA^aAbāŽAŸŽāY | ^@DAbāŽA@Žā~^āZŽābDA^@A { 'bāŽāāŽāBāa^@A&Yæ'āāAYāá^@ZaY'bāA@Ž~^@bA^aAYā [A  
Ÿ^āZ\ŸbDAYŸbDA^@A~@YŸb'ŸŽAYŽā'Ž | ŽŽAb^AYŽā'ābŽ@~Žāā^AYāA | ^āŽāŸŽDAa^@A@Žā'āb'āāā\ŸāYŽāY | ^@DAa^@A  
~Y@b'Ÿ'~Yb'āāA'āAYāA'ā | Žāb'āYb'^āA^aAbāŽAYāāŽāYb'^āDAYāZĒ^@Aa^@A~Y@b'Ÿ'~Yb'āā'āAbāŽAŸ^āZ\ŸbA~@^ŸŽāāĒA  
S@^ā Ÿ'bŽZAYŽāY | ^@A'āŸā\ZZāAYā [Aa^@&A^aA'āb' &'ZYb'^āDAbā@ŽŸbāDA^@AāY@Yāā&ŽābAY [AbāŽA'āZ' | Z\YāA  
^@Aa@'ŽāZāDAaY&'ā [DA^@A^bāŽ@A~Ž@ā^āāYŸb'āāA'āAā\~^@bA^aA^@A^āŸŽāYāaA^aAbāYbA'āZ' | Z\YāĒA  
ŠŽbYā'Yb'^āAYŸāŸŽA | Ž@ŸYāDA { @'bbŽāDAā@Y~ā'ŸDAŽāŽŸb@^ā'ŸDA^@A~ā [ā'ŸYāĒAĸŸbāA^aA@ŽbYā'Yb'^āAYŸāŸAY [A  
bāŽ&āŽā | ŽāDAYŸ\āŽAa^@AZ'āŸ'~ā'āY@ [AYŸb'^āĒAN^āŸŽ@āāA^aA@ŽbYā'Yb'^āAYŸāŸAYŽA@Ž~^@bŽZAb^AbāŽAb'bāŽAŌŪA  
N^^@Z'āYb^@DAŌNUSŃDAbāŽAŪSĽNAN^^@Z'āYb^@DA^@AbāŽAŃŽYāA^aATb\ZZābāĒ

**, I (MLQCOSCLACQ**

ĸā [Aāb\ZZābAa^@āZa@Žā~^āā ŸāŽAa^@AYA | ^āYb'^āA^aAbāŽAŌābŽ@~Ž@ā^āYāAŪ'^āŽāŸŽAS^āŸ [A { 'āāAYŽA  
ā\ŸāŽŸbAb^AZ'āŸ'~ā'āY@ [AYŸb'^āA\~Ab^DAYāZA'āŸā\Z'āāDAŽ}~\āā'^āĒAT~ŽŸ'a'ŸAY^āZ\ŸbA~@^ŸŽZ\@Žā&Y [A  
ŸŽAa^@āZa@Žā**ābb~ĵĒā'bŽāĒāŸ\ĒZZ\ĒZZŸā^aāb\ZZābāĒ~YāŽāĒŸ^& \ā b [ĒābYāZY@ZāĒ'ābŽ@~Žā^āYāĒA**  
**|^āŽāŸŽĒ~^āŸ [ĒAO | ŽāA'aŌ^āāANŸ@^āāAŪā | Žāā'b [A&Ž&ŸŽ@āAY@Žāā^bAY@' &'āYāā [A~@^āŽŸ\ bŽZDAbāŽA**  
Uā | Ž@ā'b [AYŸāA~\@ā\ŽāZ'āŸ'~ā'āY@ [AYŸb'^āĒ

.K KCBG?RC &ARGML

YÉA pŽääAYAb@ \ äbžžA~ž@ä^äAYÝ^ \ bAbäžAYÿbA^aA' äbž@~ž@ä^äYäA | 'äžäYžÉ  
 YÉA S@žžä@ | žAYä [Až | žžäYžA^aAbäžAYÿbEÄNž~žäz' äáA^äAbäžAb [~žA^aA  
 'äbž@~ž@ä^äYäA | 'äžäYžA^aažääžDAž | žžäYžA & Y [A' äYä \ žžDAY \ bA' äAä^bAä' & 'bžžA  
 b^DAbž} bA & žääYäžäDA | ^YžA & Y äA & žääYäžäDAÝ^Z' ä [Aää \ žäDAžbYÉASä [ä ÝYäA  
 ž | žžäYžAä \ YäAYäYä^bä' ääDAYžžAääžžbäDAžbYÉää^ \ äZAYžA~äYÝžžA' äAYA  
 äžY \ @žAY@žYÉ  
 YÉA N^äbYÿbAbäžAÖ^ääANY@@^ääAS^ä' YžANž~Y@b & žäbAYbADÉHEEÄ Î | EÉÐEFAYäZÉ^@A  
 bāžAUä | ž@ä' b [AÖž' äábäAS^ä' YžANž~Y@b & žäbAYbADÉHEE Ä Î EÐEÉ Í EÉAYäZÉ^@AbäžA  
 ÖNUÄFEä^ \ @AN@' ä' äAÖ^bä' äžAYbADÉHEE Ä Î | ENŁ ÖÖÉÄÖNUSNÄYäA~@^ | žžA  
 ' & žžYbžA@žž@YäA' äa^@ & Yb' äDAÝÿžžääAb^AbäžA \ ä' | žžä' b [AY^ \ ääžä^@A^äEA  
 ÝYäaDA' ä | žäb' äYb' | žAYää' äbYäYžDAYäZAYää' äbYäYžA { 'bäAä^b' a [ 'ääAä^ÿYäAäY { A  
 žäa^@Yž & žäbAYäžäY žäÉA bāžAÖNUÄFEä^ \ @Aä^bä' äžAYäA~@^ | žžA' & žžYbžA  
 ä \ ~^@bAYäZAY@' ä' äA' äbž@ | žäb' äDAžž \ ÝYbžA@žžY ~ žäbäA^aAbäžAYžäY | ^@A  
 YäZÉ^@Aä \ ~^@b | žA^bäž@äAYÝ^ \ bA@ž~^@b' äáA^~b' ääAYäZA & žžYÿäYÝ@žDAYäZA  
 Ý^@Z' äYbžAYäA' äE~ž@ä^äAYZ | ^ÝYÝ [A@žä~^ääžA { äžäAY~@^~@ YbžÉ  
 ZÉA TžžäA' & žžYbžA & žžYÿAYbžžäb' äAYbAYATŁQOÄTž} \ YäAŁ ääY \ äbAQ \ @äžA

| 'ĤāYŹY [A~@^ | 'Z'āāYA@YāāZĀ@a@Zā~āāZāDA'āYā\Z'āāY@'ā'ā'ābZ@ | Žāb'ĤāDAāYaŽb [A  
~āYāā'āāDA@Yāā~^@bYb'ĤāDAŸYŸ^&~Yā'ĤābAbĤāāZāā~'bYāYāZĒ^@AbĀā~ŽYæA { 'bāāY { A  
Zāa^ŸZ&ŽābDA@Zā\@YŽāē'āa^@&Yb'ĤāDAŸZā@Zā@YāāĒA T b\ZŽābāYŸāAYŸYZāābāZāZā  
āZ@ | YŹāY [AYĤābYŸb'āābāZĀUSĽNAS@'ā@Y&AN^@Z'āYb^@Abā@^ĤāābāZĀONUADFEā^\@  
N@'ā'āĀŌ^bā'āZAYbADĒHEĒĪ I ENĽŌŌĀĀDDGGBĒ

ŸĒA 7C?QQGELKCLRQĪA ŪāZāAbāZā@ŽY~ŽābA^aAbāZāYŹāY | 'Ĥ@AYāZAbāZā@Zā~āZāZābA  
~Y@b'Ÿ~YbZāA'āAbāZāAY&ZāYāYāāZāBAYāZĒ^@A@Zā'Zā'āAbāZāAY&Zā\ā | Ž@ā'b [A@Zā'ZāYŹā  
^@AY@Zā'āYā^āZā~@^} ' & 'b [Ab^A^āZāYā^bāZā@ĀĀ'ĒZĒāāY@ZābāZāAY&ZāYbāZāb'YāYŸ'ā'b'ZābDAbāZā  
ŸZāYāA^aTb\ZŽābāA { 'āāYĤāā\ābA { 'bāAbāZāY~~@^~@'YbZā'āZ' | Z\Yā'āA&Yæ'āāYA  
ZŽbZ@&'āYb'āA@ZāY@Z'āāYāAYābZ@'āYb | ŽAYāā'āā&ŽābĀāBĒ

' I 7CNMPRGL E 4NRGLQ

bāZĀ\ā | Ž@ā'b [AŽāYĤ\@YāZāAbāāZā { ā^AāY | ŽāZ}~Ž@ZāYŹZā'ābZ@~Ž@ā'āYāA | 'ĤāZāYŹAbĤāZ~^@bAbāZāZā  
'āY'ZŽābāAb^AYĤāĀŌ^āāNY@^āāS^ā'YŹNŹ~Y@b&ŽābAYāZāA^YŸYāA { AŽāa^ŸZ&ŽābĒAŠZ'~ŽābāA^aAbāZā  
YŹāY | 'Ĥ@āY | ŽAbāZā@'āābDA^ { Ž | Ž@DAā^AbĤā~@^ | ZŽAYābYbZ&ŽābAbĤāZ'āZ@AŌNUSŸA^@āā^YŸāA { A  
Zāa^ŸZ&ŽābĒ

Ľā [Aāb\ZŽābA { ā^A { 'āāZāAbĤāZŸZ' | Žā&^@Zā'āa^@&Yb'ĤāA^āA@Z~^@b'āāA~@^YŹāāZāDAŸāZĒ^@A^Yb'Yā  
@Zā\@YŹZ@ZāZ@Yāā'āa^@&Yb'ĤāAY@ZāZāYĤ\@YāZŽAbĤā'āZĀUSĽNĒUSĽNĀYŸYāAYāā~@^ | ZŽAbāZā@ŽY~ŽābA^a  
bāZāYŹāY | 'Ĥ@A { 'bāAYāAYZ | ^YŸYbZābā\āā\^bAbāZāZāb'@ZāZ~^@b'āāA~@^YŹāāĒA bāZāUSĽNAS@'ā@Y&A  
N^@Z'āYb^@AYŸYāYŸZāZŸYāZŽAYbĀĀĒĒHBAĒĪ I EDĒ I GA^@Abā@^ĤāābāZāŌNUADFEā^\@Aā^bā'āZAYbĀĀĒĒHBAĒĪ I EA  
NĽŌŌĀĀDDGGBĒ

Ēē'āāAYāZ~^@bAZāA^aAbāZāYŹāY@'ā [A^Yā'āYbZābāZā@ŽY~ŽābA^aAbāZāYŹāY | 'Ĥ@AbĤā~\@ā\ZāZ'āY'~ā'āY@ [A^@A  
Ÿ@&'āYāYāY@āZāĒAĽābā^ĤāābāZāA^YŸYā~^YŹAYāZā\ā | Ž@ā'b [A^āā'Y'YāāĀ'āYā\Z'āāHŌNUSNBAAY | ŽA  
YāA^Yā'āYb'ĤāAbĤā~^@bZŸYbAbāZāYĤ^& & \ā'b [A@^@&AbāāZā { ā^AāY | ŽāZāāYāZāZā'āY@' & Žāa^A | 'ĤāZāYŹDA  
'āYā\Z'āā@ZāYb'āāā~A | 'ĤāZāYŹDAābYāē'āāDAāZ\YāāY@Yāā&ŽābDAāZ\YāAYāY\ābDAā^āēYāāZāā\Yā  
āZ\YāYĤābYŸbDAŸZāZāZ\YāZ}~ā^bYb'ĤāDAbāZ [AY@ZAYāā^&'āZa\ā^AbāZāāZāZāAYāZāZā'Zā^AbāZā  
@ZŸ~ŽābA^aAbāZāYŹāY | 'Ĥ@A { āZāAYZZ@Zāā'āāYā [AYāāZāZāAāāZāāZāĒA bāZāY [AYŹā'āābYāYŹāā'āā  
{ ā'YāAbāZāUā | Ž@ā'b [AYāZĒ^@AāY { AŽāa^ŸZ&ŽābAYZ'Zā~\@ā\ZāYāYāZāā { 'bā^\bAbāZāYĤ~Z@Yb'āā  
AbāZā@ZŸ~ŽābA^aAbāZāYŹāY | 'Ĥ@Ē

bāZĀ@ZŸ~ŽābA^aAbāZāYŹāY | 'Ĥ@'āā { ŽāYĤ&ŽābĤāY | ŽAYā~Zā^āA^aAā'āēāZ@AYā^ā'āā'āYā\Z'āā  
bāZAS@'ā@Y&AN^@Z'āYb^@Aa@^&AbāZāU'ĤāZāYŹAS@Z | Žāb'ĤāAYāZĽYb'ĤāANZābZ@A { 'bāAbāZ&A { āZā  
&ZŽb'āāA { 'bāAYāA^āā'YŹ@Ab^Aa'āZAYāZ~^@bĒAĽZ'ā'āYāā [DAbāZāNāZ | ŽAYāZASŸ~ZAN@'ā'āNŹābZāAYā  
YĀDFEā^\@AĒYŸZĒb^ĒEYŸZĽZ | ^YŸY [A~@^ā@Y&AbĤā~@^ | ZŽā\~^@bAYāZā'āa^@&Yb'ĤāAbĤāZā  
@ZŸ~ŽābA^aAbāZāYŹāY | 'Ĥ@AYbAbāZā~^ā'YŹAZZ~Y@b&ŽābAāA^YŸYāA&\āY'~āYā'b [AYāZĒ^@AŌNUSŸNĒA bāZā  
@ZŸ~ŽābA^aAbāZāYŹāY | 'Ĥ@AYŸYāAYŸYZāāYZ | ^YŸY [A~@^ā@Y&āAbā@^ĤāāUSĽN'āDFEā^\@Aā^bā'āZā  
YbĀĀĒĒHBAĒĪ I ENĽŌŌĀĀDDGGBĒ

ĒĒA+GJGLE ? PCNMPR UGRF /MFL ( ?PPMJJ 5MJGAC ) CNRI 'Ľfi!~!\$~fiĽ!ZŸ%

bāZĀ@ZŸ~ŽābA^aAbāZāYŹāY | 'Ĥ@'āāāb@'āāā [AZāYĤ\@YāZāAbĤā'āZāYA@Z~^@bA { 'bāAŌNUSŸNDA  
{ ā^A { 'āāYĤāZ\YbAYā'ā | Žāb'āYb'ĤāĒAŌbā'ābāZāāZāZāYā~@YŸYb'YŹA^aŌNUSNAbĤāZ~^@bA  
YāāZāYb'ĤāāA^ā'ābZ@~Zā^āYāA | 'ĤāZāYŹAbĤāZāUā | Ž@ā'b [AŌZ'āābAS^ā'YŹA  
ŸZ~Y@b&ŽābĒAŠZ~^@bāAY@ZAYāā^A^@ { Y@ZŽAbĤāZāNŸYāA^aTb\ZŽābāRaa'YŹAYāZāZā  
b'āZāŌŪAN^@Z'āYb^@A\~^āA@ZŸZ'~bĒ

ĽI +GJGLE ? PCNMPR UGRF RFC : LGTCPQGRW - CGEFRQ 5MJGAC ) CN?PRKCLR 'Ľfi!~!\$~fiĽ!#fifi%

N@&'āYāYāY@āZāH&Y [AYŹA~\@ā\ZAYābZ@Aa'ā'āāYā'ā'b'Yā@Z~^@bA { 'bāUŌSŸNĒAŌ^āā  
NY@^āāS^ā'YŹANZ~Y@b&ŽābAYāZĒ^@AYāAYZ | ^YŸYbZā&Y [AYŸY^&~Yā [AbāZā@ZŸ~ŽābA^a  
bāZāYŹāY | 'Ĥ@'āā'ā'āāAYāZ~^@bAYbAUŌSŸNĒAAbāZā@ZŸ~ŽābA^aAbāZāYŹāY | 'Ĥ@'āā  
'ābZbZābZā'āYĤ\āāZā'āāZā@ | YŹāDAēāZā { 'āāYŹAbZāZ@ZŽAbĤāZāŌ^āāNY@^āā  
Uā | Ž@ā'b [AN^ĤāZā'āāNŹābZāĀĀĒĒHBAĒĪ I EFDĪ €BDANāZ | ŽAYāZASŸ~ZAN@'ā'āNŹābZā  
ĀĒĒHEHEĒĪEHĒĪĒBDAYāZĒ^@AN^&Žāb'YāU'ĤāZāYŹAYāZANā'āZĽZ | ^YŸY [ANZābZ@ĀĀĒĒHBAĒĪĒĒA  
ŌŌŌSBĒ

fi +GJGLE ? PCNMPR UGRF RFC 9GRJC . = (MMPBGL?RMP °Łfi!~†\$"~fižž\$"%

pāžA@žŸ'~žābA^aAbāžAŸžāY|'^@AYŸāA&žžbA{ 'bāAbāžA b' bāžAÜAN^^Z'āYb^@Ab^AZ'āŸ\āāA  
~^āā'ŸāžA|'^iYb'^āāA^aAbāžA0ābž@~ž@ā^āYāAÜ'^āžāŸžAS^iŸ[DA { ā ŸāA'āŸā \žžāA@žāYb'^āāā'~A  
|^'āžāŸžDAābYāæ'āāDAāž}\YāAāY@Yāā&žābDAāž}\YāAYāāY\ābDAā^āEŸ^āāžāā\Yāāž}\YāA  
Ÿ^ābYŸbDAYāZAāž}\YāAZ}~ā^bYb'^āÉ

(i 8RSBCLR (MLBSAR 5PMACBSPCQ

pāžATb\žžābAN^žžA^aAN^āZ\ŸbAYāZAN^āZ\ŸbAS@^Ÿžž\@žāAY@žāŸ^ābY'āžžA'āAbāžAN^&&\ā'b[ATbYāZY@ZāA  
PYā\YāA { ā ŸāAYŸāAYžAa^\āZA^āā'āžAYbA**ābb-ĭĕĕā bžāĕāŸ\ĕžž\ĕžžYā^aāb\žžābāĕ-ŸāžāĕŸ^A&&\ā'b[ĕA**  
**ābYāZY@ZāĕŸ^āZ\Ÿbĕā[ābž&Ā** ^|^'āæ@^ā'āāā' āžA^Ÿ\&'bžA bž@ĕPāb~ŸžAEŸb'b~Ÿb'b~žŸ'~āā'

8RSBCLR 7GEFRQ% 9FC 7CQNMLBCLR

ŌāAbāŽāžY@'ááAā^b'a'ŸYb'^āAbžbbž@AYāZAYáY'āAYbAbāŽāY'žá'āā'áA^aAbāŽāžY@'ááDAbāŽāŽā~^āZžābāāb\ZžābA { 'āāA  
YžAYZ|'āžžAbāYbAāāāŽāāYāAbāŽā@'áābāāā'ābžžY'žā^ { ÉA T b \ ZžābāA { 'bāAYā [A\* \ žāb'^āāAYŸ^ \ bAbāž'@A@'áābāAY@ŽA  
žāY^ \ @YāžžAb^AY^ābYŸbAbāžAŁāā^Y'YbžANžYāA^aTb \ ZžābāÉ

ÉÉA PāŽāāb \ ZžābA'āAžāb'bažžAb^AYžāA' | ŽāAYāžž}~āYāYb'^āA^aAbāŽāY'āZ \ Ÿbāā [ ābž & AYāZAbāžāYāY@āžāāBÉ

ĐÉA PāŽāāb \ ZžābA'āAžāb'bažžAb^Aa@žžž^ & Aa^& AāY@Yāā & ŽābA^@A@žžYā'Yb'^āAY [A^bāž@āA'ā | žžA'āAbāžA  
ā'b \ Yb'^āÉ

€ÉA PāŽāāb \ ZžābA'āAžāb'bažžAb^AbāžA \ āžA^aAYāāAY | Y'āYŸāžā'ābžžāYāYāZāžž}bžžāYāā \ ~-^@bAāž@ | Ÿžžā'āA  
žžYā'āāA { 'bāAbāžāYabžž@ & YbāA^aAbāžA'āY'žžābÉ

FÉA PāŽāāb \ ZžābA'āAžāb'bažžAb^A^YāžžYbAb^AYa & žž & Yžž@A^aAYATb \ ZžābAN^āZ \ ŸbAM^Y@Zāa^@A@žžYā'āāA^a  
^aa'ŸYāA^@A~žž@āYāYāā'YbA^aA'ābžž@žābÉ

GÉA PāŽāāb \ ZžābA'āAžāb'bažžAb^AAY | ŽAYāAYZ | ā^@A^aAā'āāžž@AYā^ā'āāAYŸY^ & ~Yā [Aāžž@Éā' & A  
bā^ \ āā^ \ bAbāžāY^āZ \ ŸbA~@^Yžžāā'āYā \ Z'āāAYā [A'ā'YāA & žžb'āāDāY^āāžž@žāYžDAbāžA  
āžžY@'āāDāYāZ~^āābÉāžžY@'āāA & žžb'āāÉ

HÉA PāŽāāb \ ZžābA'āAžāb'bažžAb^AYžāA~@žžāžābAbā^ \ āā^ \ bAbāžāžāžY@'āāDāY \ bAā^bAZ \ @'āāAbāžāžžā'YžžYb'^āā  
^aAbāžA T b \ ZžābAN^āZ \ ŸbAŁZ & 'ā'āb@Yb^@ÉM^Y@žžÉ

IÉA PāŽāāb \ ZžābA'āAžāb'bažžAb^Aāā^ { AYāā'āa^@ & Yb'^āA~@žžāžābžžAYāY'āābāā' & āāžž@AYāZAb^A | ž { A~žž@b'āžžāb  
& Ybžž@Yāāā \ ~-^@b'āāAbāžāYŸYāžžAYāY'āābāā' & āāžž@É

ÍÉA PāŽāāb \ ZžābA'āAžāb'bažžAb^A~@žžāžāb~žž@b'āžžāb'āa^@ & Yb'^āAYāZAbāžā'āa^@ & Yb'^āA^aA { 'bāžžāāžžāD  
žž}Yā \ Z'āāAYāY@YŸbžž@A { 'bāžžāāžžāDAb^Aā \ ŸābYāb'Ybžžāā'āāžž@AYāžžAYāZAb^A@žžā~^āZAb^AbāžāYāY@āžžā  
YāY'āābāā' & āāžž@ÉA Pā'āA'āYā \ ZžāA~@^~^ā'āāA\* \ žžāb'^āāAb^AYžžAYāāžžA^aAbāžā@žžY'~žžābA^Abāžā  
YžžāY | ^@AYāžž@É^@A { 'bāžžāāžžāÉ

ĪÉA PāŽāāb \ ZžābA'āAžāb'bažžAb^Aa@žžž^ & Aa^& AāY | āāA'@žžž | YābA~žžā^āYāā'āb^@ [AZ'āY \ āāžžA^@  
Ÿ^āāžž@žžAZ \ @'āāAbāžāY^āZ \ ŸbA~@^YžžāāÉA PāžA T b \ ZžābAN^āZ \ ŸbAŁZ & 'ā'āb@Yb^@A { 'āāAZžž@ & āžžA  
@žžāž | YāYžžÉB

ĒÉÉA PāŽāāb \ ZžābA'āAžāb'bažžAb^A@žž & Y'āAā'āžžāāÉžžEDA^bAb^Aā' | žž'āa^@ & Yb'^āAYāY'āābāā' & āāžž@āžžābB^ \ b  
& \ ābāYžžā'āa^@ & žžAbāYbAbāžāYŸYāžžA { 'āāAYžžAZžž'žžžA^āAbāžā'āa^@ & Yb'^āA~@žžāžābžžÉ

ÉÉÉA PāŽāāb \ ZžābA'āAžāb'bažžAb^A { 'bbžžāAZ^Y \ & žžābYb'^āA^aAbāžā \ bY^ & žžA^aAbāžāY^āZ \ ŸbāžžY@'āāÉ  
ÉĐÉA PāŽāāb \ ZžābA'āAžāb'bažžAb^A & YāžžAYA { @'bbžžāAY~žžYāA^aAbāžā Z'āY'~ā'āY@ [AZžžY'ā'āA { 'bā'āA' | žžAAGB  
Y \ ā'āžžāāZ Y [ āA^aAbāžāZ Y bžžA^aAā^b'a'ŸYb'^āA^aAbāYbAZžžY'ā'āāÉA U ā' | žžāb [AZ'āY'~ā'āY@ [AYŸb'^āāAY@žžA  
Y~žžYāžžAb^AbāžāNžžYāA^aTb \ ZžābāÉ

Pāžā@žžY'~žžābA^AbāžāYžžāY | ^@AYāZAbāžā@žžā~^āžžābāāb \ ZžābāāAYāāYžžA'āa^@ & žžDA'āA { @'b'āāDA^aAbāžā  
a^āā^ { 'āāī

M bāžžA^ \ bY^ & žžA^aAbāžāY^āZ \ ŸbāžžY@'āāī

M bāžžA~@^Yžž \ @žžāA^@AbāžāY~žžYāā~@^Yžžāāī

M Yā [AYāYāāžžā'āAbāžā@žžā \ ābāAbāYbA^YŸ \ @āA~@'^@Ab^Abāžžb' & žžAbāžā@žžā \ ābāAYžžY^ & žžA'āYāī

M { āžžāAbāžā@žžā \ ābāAYžžY^ & žžA'āYāÉ

)I &BBGRGML?J 7CQMSPAC .LDMPK?RGML

---

---

---

---

---

---

---

---

---

4FGM : GARG KQ MD (PGKC (MKNCLQ?RGML%

---

---

---

---

---

---





+0PC 1?LCQI SY@æ'áá'āā~@^ā'ý'bžžā'āA] ^āžāA { āž@žAYāa'@žāYāžā'āā~^ābžžÉ

## 4DD (?KNSQ 'CF?TGMP 5MJGAW

pāžAUā' | žā'ā'b [A@žāž@ | žābāžā@' áābā^A@ž | ž { Aāb \žžābA & 'āý^āž \ ýbābāYbA^ýý \ @ā^aaYý & ~ \ āA { āžāA  
ā \ ýāYžāY | ^@A@žāžāYbāA \ ~^ābāžā' ābžā' b [A^ābāžāUā' | žā'ā'b [ÉA Tb \ žžābāY@žāž & 'āžžābāYbābāž [A  
āž@ | žAYā@ž~@žāžābYb' | žāA^āO^āāNY@^āāUā' | žā'ā'b [AYāZAY^bā~^ā'b' | žAYāZā' āý~@^~@Ybžā  
ýžāY | ^@AYaažýbābāžāUā' | žā'ā'b [āā' & YāžAYāZā@ž~ \ bYb' ^āÉA Tb \ žžābāY@žāžāý^ \ @Yāžžāb^AYžā' ā | ^ā | žžā  
'ābāžā' @AY^ & & \ ā'b [A^ā~^ā'b' | žA { Y [āDAā \ ýāYāY^ & & \ ā'b [Aāž@ | ýžAYāZā^AYāā^ | žā'ā' & žābEAbāžā  
Uā' | žā'ā'b [AZžā' @žāb^āAY | žāāb \ žžābāYýbAYāY^bāA@žā~^āā' ýāžAYāZā & Yb \ @žā@ž~@žāžābYb' | žāÉ

ŌāAbāžāYāZā^āA' āY~@^~@YbžāYžāY | ^@A^aaYý & ~ \ āDAbāžāNžYā^āA Tb \ žžābāA^@AZžā' āāžžā  
'ā | žāb' āYbžābāžāžāYāY@āžāYāZā & Y [A & Yæžāžāž@Yāāb^ābāžāA Tb \ žžābāN^āZ \ ýbA T [ ābž & É  
Ā Tb \ žžābāA^@^āYā' ] Yb' ^āāAā \ āZā@žā~^āā' ýāžāA^@A | ^āYb' āābāžāžā@žā \ āYb' ^āāA { āāYžāā \ ýāžýbābA  
bāžāāY & žāāYāýb' ^āāA' & ~^āžžāA^@A | ^āYb' ^āābāYbA^ýý \ @A^āYý & ~ \ āBÉ

Łāā^āāYāāāb \ žžābāA & ^ | žā' āb^ābāž' @Aāž { A@žā' žžāýžāDAbāž [AY@žāžāý^ \ @Yāžžāb^AZž | žā^~AYā@Y~^~@bA  
{ 'bābāž' @Aāž { Aāž' āāý^ ^āEaU~^āAY@' | YāDAāb \ žžābāāā^ \ āZā' āb^āZ \ ýžābāž & āžā | žāDAž } ýāYāāžā  
bžāž~^ā^āžÉýžāā~^ā^āžāā \ & ýž@āDAYāZā & žžbA { 'bābāž' @AY^ & & \ ā'b [A~žž@āA^āAYāý^@Z' YāYā' āā^ābāYbA  
bāž [AYýā' žžāb' a [A { 'bābāž' @Aāž { Aāž' āāý^ ^āAYāYžāYāZā~žā^āYā' b' žāA@Ybāž@AbāYāA & žžā [AYāYā  
YZZ@žāÉ

## 8RSBCLR (MLBSAR \*VNCAR?RGMLQ

ŁāābYbžžAYý^ | žDAāb \ žžābāY@žāž' ~žýbžžāb^AZž & ^āāb@Ybžā@žā~žýbāA^@AYāāA & ž & ýž@āA^ābāžā  
ā^ýYāY^ & & \ ā'b [A@žāY@žāžāā^ābāž' @A~āYýžāA^ā@žā' žžāýžÉACEY'ā \ @žāb^AYZāž@žāb^ābāžāā^ { 'āā  
ā \ žžā' āžāYýā@žā \ ābā' āAZ' āý'~ā'āY@ [AYýb' ^āÉ  
ÉÉATā^ { A@žā~žýbāA^@AbāžAY@žYA { āž@žā [ ^ \ āā' | žÉAT' āāā^āAZ' ā@žā~žýbā' āýā \ žžDAY \ bAY@žāā^bāā' & 'bžž  
b^āā' bbž@' āāīāā' bž@' āāīAZžāb@ \ ýb' ^āA^āA~@^~ž@b [īAb@žā~Yāā' āāīā~ \ ýā' ýā \ @' āYb' ^āīāā \ ž' b [īā  
'āā \ āb' āāYāā \ YāžīAYāZā' āāžāYā~Y@æ' āāÉ  
ĐÉAR~ž@Ybžāžāžýb^ā' ýAZž' ýžāāābž@žāāDAb | āāžbýÉBAYbA@žYā^āYýāžāž | žāāžā~žý' Yāā [ āYbžāYb  
ā' āābAYāžžY@ā [A' ābāžā & ^@' āāÉ  
€ÉAPY' ābY' āYāA^@žž@ [A@žā' žžāýžÉAO' | žžāýžā^āAYAZ' ā^@žž@ā [A@žā' žžāýžāYýā' āýā \ žžābāž  
ā^āā { 'āāīāā^ \ āžā~Y@b' žāīā | ^āYb' ^āāA^āAYāý^ā^āAYāZā@ \ āāY { āīā~ \ ýā' ýā' āb^ } ýýb' ^āīā  
ž' ýžāā | žāā' āžīāAY@Yāā & žābīā^@A^bāž@AZ' ā@žāY@ZāA^@Abāžā' 'āābāA^ābāž@āÉ  
FÉARā' ^āY { A~@^ā' ý' bāA^~žāAYāý^ā^āY^ābY' āž@ā' āā~ \ ýā' ýā~āYýžāÉAS \ ýā' ýā~āYýžāAY@žābā^āž  
{ ā' ýāYā [ ^āžāYýāžābž@A@žžā [AYāZā' āýā \ žžāā' žž { YāāDAāb@žžbāDAb@žžāY { āāDAā^ & žā  
^ \ bž^ ^@AY@žYāA^AY~Y@b & žābAY^ & ~āž } žāDAYāZā' āā' žžā~Y@æžžā^@A & ^ | 'āāYý@āÉ

## 4TCP?JJ , SGBGLE 5PGLAGNJCQ

ÉÉAQŽ'ááY^@āAāY|ŽAY@'áābAb^AbāŽA~ŽYŸŽa\āŽāā^[] & ŽābA^aAbāŽ'@A~@^~Ž@b [É  
ĐÉA T b \ ZŽābāAā' | 'áá'āAbāŽāŽāāŽ'ááY^@ā^ZāAāY|ŽAYāA^Yá'áYb^āAb^A@Žā~ŽYbAbāŽāŽA@'áābā  
YāZAb^AŽāā^ [AbāŽAYŽāŽa'bāA^aAā' | 'áá'āAbāŽA { 'ZŽ@AY^& & \ā'b [É  
€ÉA0^āāNY@@^āāUAá | Ž@ā'b [AāYāAYAZ \ b [Ab^A { ^@āA~@^YŸb' | Žā [A { 'bāAbāŽAY^& & \ā'b'Žāā \ @@^ \ āZ'áā  
bāŽAUá' | Ž@ā'b [Ab^AYāā'ābAb \ ZŽābā'āAbāŽ'@Ab@Yāā'b^āAb^AY^& & \ā'b [Aā' | 'ááÉ  
FÉA Ū āŽāY~@^~@^YbŽAYāZA~^āā'YāŽDAbāŽAUá' | Ž@ā'b [Aāā^ \ āZA'ābŽ@ | ŽāŽāā { 'abā [Ab^A@Žā^ā | ŽA'āā \ Žā  
YāZA~@^YāŽ&āAY \ āŽZAY [Aāb \ ZŽābāÉ  
GÉAŁ āāŽ'ááY^@āDA'āYā \ Z'āāY \ ā'āŽāāŽāDAYā \ @YāŽāDAYāZāYāZā^@ZāDAŸYāAŸ^āāYŸ^@YbŽAb^AY@ŽYbŽ  
YāZAā \ ābY'āāŽ'ááY^@ā^ZāŽā | 'ā'ā & ŽābābāYbAY@ŽAāYāŽAYāZāŽāā^ [YŸāŽAa^@AYāāÉ

## 4DDGAG?J (MKKSLGA?RGML

p { ^A^aa'ŸYā&ŽYāāA^aY^& & \ā'ŸYb'^āAŽ' } ābAa@^&AbāŽAUá' | Ž@ā'b [Ab^Aa \ āāEb' & ŽA \ āŽŽā@YZ \ YbŽDA  
ā@YZ \ YbŽDAYāZA~Y@Eb' & ŽAāb \ ZŽābāĪ

CE^@AYāāAb \ ZŽābāDAŽYŸāAāb \ ZŽāb'āAUá' | Ž@ā'b [A'āā \ ŽZAŽE & YāAYŸY^ \ ābÉ

CE^@A@Žā'ZŽābAāb \ ZŽābāDAŽYŸāAāb \ ZŽābāAYāā'āāŽZ^āAAY^& ~ \ āA & Y'āY^ } ā'āAbāŽAŸĪÉAÓÉA  
Ō^ & ŸY@Z^ATb \ ZŽābANŽābŽ@ÉACE^@AYāāA^bāŽ@Aāb \ ZŽābāDAŽYŸāAāb \ ZŽābāAY \ @@ŽābA & Y'ā'āā  
YZZ@ŽāāÉ

8RSBCLRQ ?PC CVNCARCB RM AFCAI RFCGP QR?LB?PB K?GJ ?LB / ( : C~K?GJ ?AAMSLRQ ML ? B?GJWA  
@?QGQI < FGJC QRSBCLRQ K?W K?GLR?GL ?LW LSK@CP MD C~K?GJ ?AAMSLRQ UGRF MRFCP QCPTGACQ\_A  
CTCPW QRSBCLR GQ PCOSGPCB RM K?GLR?GL ?L ?ARGTC / ( : C~K?GJ ?AAMSLR ?LB SQC GR DMPA  
CJCARPMLGA AMK KSLGA?RGML PCJ?RCB RM : LGTCPQGRW @SQGLCQI 9FGQ PCOSGPCKCLR NPMTGBCQA  
PC?QML?@JC ?QSP?LAC RF?R RFC QCLBCP MP PCAGNGLR MD CJCARPMLGA KCQQ?ECQ K?RAFCQ FGQ MP FCPA  
RPSC GBCLRGRWI

## 5MQRGLE 5MJGAW ?LB 5PMACBSPCQ



ÓŽáŽŸYá~^á'Ÿ[A\* \ Žáb^ááAŸYáAYŽAZ' @ŽŸbŽZAb^AbáŽAŸN' @ŽŸb^@A^aAS \ @ŸáYá'ááAÁŁ \ } 'á'Y@ [ATŽ@ | ŸŽáAYbA  
ĐÉHÉÉÍ | É€ÉĐGÉAN^ábŽábAYáZA \* \ Žáb^ááAŽáY@Z'ááA~^áb'ááAŸ [Aáb \ ŽŽábáAYáZAá^áEUá' | Ž@áb' [Aá@^ \ ~á  
áá^ \ áZAYŽAZ' @ŽŸbŽZAb^AbáŽARaa' ŸŽA^aATb \ ŽŽábAŁ Ÿb' | b' ŽáAYbAĐÉHÉÉÍ | ÉĐÍ | A^@A  
[áb \ ŽŽábYŸb' | b' Žá L áŸ \ ÉŽ \](#)

, :.) \* 1.3 \* 8 + 47 85 \* (.+. ( 9 > 5 \* 8 4 + 5 : ' 1. (.9 >

897. : 2 < .3 ) 4 < 5 & .39.3 ,

ÉÉA Łb@' \ & A { 'áz^ { A~Y'áb'ááA'áAbáŽAŸNÉAÓÉAÓ^ & ŸY@Z^ATb \ ŽŽábANžábŽ@A'áA@ŽáŽ@ | ŽZAa^@A & Yá^@DA  
ŸY&~ \ áE { 'ŽŽáŽ | ŽábAa^@A@ONUŽáb'b' ŽáA^áá [ÉARáá [A^áŽáŽ | ŽábA & Y [AYŽA~ \ Yá'Ÿ'] ŽZAYbA^áŽA  
b' & ŽÉ  
ĐÉA PáŽAá@^ \ ~A & \ ába~@^ | 'ŽŽAbáŽ'@A^ { áA~Y'ábAÁ \ áŽA { YbŽ@AYáŽZA~^ábŽ@A~Y'ábA^áá [A~áŽYáŽÉĐÉA  
SY'ábA & \ ábAYŽ@Ž & ^ | ŽZA { 'bá'áADFáá^ \ @áA^AbáŽáŽ | ŽábÉ  
ÉÉA ÓAbáŽAYáŽYá'ááAY^ & ~Yá [AYáŽYááAbáŽA { 'áz^ { DA [ ^ \ @A^ @áYá' ] Yb' ^ áA^ @AZŽ~Y@b & ŽábA { 'áAYŽA  
YáY@áŽZAYaAZŽAbáYbA@YááŽáAa@^ & ÁÉÉÉÉAÉAÁFÉÉÉ  
FÉA P^AáŽba~Ž@ & 'áá' ^ áAa^@Abá' áAa^@ & A^aA~ \ Yá'Ÿ'b [DA~áŽYáŽAŸ^ & ~áŽbŽAbáŽARaa' ŸŽA^aATb \ ŽŽábA  
Ł Ÿb' | b' ŽáAS \ Yá'Ÿ'b [AŠŽ\* \ ŽábACE^@ & DA { 'báAbáŽáŽá' bAYáZAZŽá' ááAYbbYŸáŽZDAYáZAá \ Y & 'bAb^AbáŽA  
Raa' ŸŽA^aATb \ ŽŽábAŁ Ÿb' | b' ŽáAARTŁBAa^@AY~@^ | YáÉ  
GÉA ŁábŽ@A [ ^ \ @A@Ž\* \ ŽábA'áAY~@^ | ŽZDA [ ^ \ A & Y [Aá'ááAbáŽAYb@' \ & A { 'áz^ { AYŸáŽáZY@Aá^ŸYbŽZA' áAbáŽA  
RTŁÉ

' & 33 \* 78

ÉÉA MYááŽ@áA & Y [A^áá [AYŽAá \ ááA^áAbáŽA { YááA^aAbáŽAŁb@' \ & AYŸ@^ááAa@^ & AbáŽA { 'áz^ { áA^aAbáŽ  
ŸÉAÓÉAÓ^ & ŸY@Z^ATb \ ŽŽábANžábŽ@AYáZAa^@A^ & AbáŽAáá^' ] ^ábYá@Y'áAYbAbáŽAb^~A^aAbáŽáAbŽ~áÉAT' áááA  
& Y [Aá^bAYŽAá \ ááA^áAYá [A^báŽ@A { YááA^@AábY'@ { Y [AáYáZ@Y'áÉ  
ĐÉA MYááŽ@áA & Y [AYŽAá \ ááAa^@AYA~Ž@' ^AZA^a^áŽA { ŽŽÉÉAbáŽ [A { 'áAYŽA@Ž & ^ | ŽZAYabŽ@AáŽ | ŽáAZY [ áA  
^@Aa^áá^ { 'ááAbáŽAZY [A^aAYáAYZ | Ž@b' áŽZAŽ | ŽábÉ  
ÉÉA MYááŽ@áA & Y [Aá^bAŽ' ] ŽŽZAbá@ŽŽAÁÉBAbáŽŽbA { 'ŽŽAY [Aá' ] ÁÁHBaáŽŽbAá^ááA' áAá' ] ŽAYáZAáá^ \ áZAYŽA  
á \ ááAYbAYááŽ' ááAbA^aAYbAáŽYábAŽ' ááAbAáŽŽbAa@^ & AbáŽAáá^@É  
FÉA O'ŸŽ~b' ^ááA & Y [AYŽA & YŽŽA' áAbáŽAá' ] ŽDá^AYŸb' ^áAYáZáYáá' ááAZ \ @Yb' ^áA^aAá' ááAa^@Aá~ŽŸYáA  
ŸY&~ \ ááŽ | ŽábAÁŽÉáÉAÓ^ & ŽŸ^ & 'ááÉACEY & á [A ŸŽŽéŽáZDAÓ@ŽŽéA ŸŽŽéDAŽbŸÉBA { 'bAbáŽA  
Y~@^ | YáA^aAbáŽARTŁÉ  
GÉA Tb \ ŽŽábA^@áYá' ] Yb' ^ááA { 'áAbA^~^ábAYŽ [ ^áZAbáŽAá \ 'ŽŽá' áŽáA { @'bbŽáA' áAbá' áA~^á'Ÿ [DA & \ ába  
á \ Y & 'bAYa { @'bbŽáA@Ž\* \ ŽábAb^AbáŽARTŁAa^@AY~@^ | YáÉ  
HÉA Uá' | Ž@áb' [AZŽ~Y@b & ŽábáA { áA^ { 'áAbA^~^ábAYŽ [ ^áZAbáŽAá \ 'ŽŽá' áŽáA { @'bbŽáA' áAbá' áA~^á'Ÿ [A & \ ába  
áŽbAbáŽAY~@^ | YáA^aAbáŽARaa' ŸŽA^aATb \ } 'á'Y@ [ATŽ@ | ŸŽáÉ  
IÉA ŁááAYááŽ@áAY@ŽAY~@^ | ŽZAYáZAábY & ~ŽŽAa^@AY~@^ | YáDA' áŸ' \ Z' ááAYa@Ž & ^ | YáZAYbŽDÁY [AbáŽA  
RTŁAÁá^ŸYbŽZA' áAT \ b' ŽAĐÉÉA^aAbáŽAŸNÉAÓÉAÓ^ & ŸY@Z^ATb \ ŽŽábANžábŽ@DAYŸ' | ŽAbáŽAY^ááAb^@ŽBÉ

( - & 10.3 ,

ÉÉA Pá'áAa^@ & A^aA~ \ Yá'Ÿ'b [A'áAY | Y'áYáŽAa^@A@Žá' ábŽ@ŽZAáb \ ŽŽábAa@^ \ ~áA^@AZŽ~Y@b & ŽábAbA^~@^ & ^bŽA  
YáA^@áYá' ] Yb' ^áYáŽ | ŽábA^@A & ŽŽb' ááÉ  
ĐÉA NáYáé' ááAÁáá^ \ áZAYŽA^áAbáŽAá' ŽŽ { YáéA^áá [AYáZAá^bA^áAYá [AY' \ 'áááA^@Ab@YááAYááÉ  
ÉÉA Ó@^ \ ~áA & \ ába~@^ | 'ŽŽAbáŽ'@A^ { áAYáYáéÉ  
FÉA P^AáŽba~Ž@ & 'áá' ^ áAa^@Abá' áAa^@ & A^aA~ \ Yá'Ÿ'b [DA~áŽYáŽAŸ^ & ~áŽbŽAbáŽARaa' ŸŽA^aATb \ ŽŽábA  
Ł Ÿb' | b' ŽáAS \ Yá'Ÿ'b [AŠŽ\* \ ŽábACE^@ & DA { 'báAbáŽáŽá' @ŽŽAbŽ' } bDAYáZáA^áYŸb' ^áAYbbYŸáŽZDA

+1447 5489.3 ,

ÉÉA Cēāā@A~\Yā'Yb [AYYāAāā [AYZAZ'ā~yY [ZZAāAbāZāAbY'@āAa^&AbāZATYā^bbAÑ'ā'āāOYāāZ | ZāAb^AbāZā  
 Ōāb@Y & \ @YāO [ & AāZ | ZāA^AbāZāŃĖOĖA^&Y@Z^ATb \ ZZābANZābZĖĖ

ĐÉA S \Yā'Yb [AYYāAāā [AYZā~^ābZZAā^AbāZāā ZZA^AbāZāābZ~āDAā^bAbāZāAb^~A^AbāZāābZ~āÉAMā \ Zā  
 ~YābZ'āAbY~Zā & \ābAYZā \āZZAb^AāZ'Y \ ZābāZā~\Yā'Yb [É

€ÉA Cēāā@A~āā'āā'āā' & 'bZZAb^Aāā [A@Zā'ābZ'ZZAYāZā@Z'Yāā' ]ZZAŌNUAāb \ ZZābA^āYā' ]Yb'āāāÉA  
 Rāā [Ab { ^AĀDBA^āYā' ]Yb'āāāYāāY [Zā~\Yā'Yb [A^āAbāZāābZ~āAa^@A \ ~Ab^AFÍ Aā \ @āÉāābZ@AbāZāAFÍ A  
 ā \ @āDA~\Yā'Yb [A & \ābAYZā@Z & ^]ZZAY [AbāZā~^āā^@'āāāā \ ZZābA^āYā' ]Yb'āāÉ

FÉA b^AāZā~Z@ & āā^āAa^@Abā'āAa^@ & A^aA~\Yā'Yb [DA~āZ'YāZ'Y^ & ~āZbZābāZāRaa'YZā^aATb \ ZZābA  
 Ł Yb' | b' ZāAS \Yā'Yb [AŠZ\* \ZābACE^@ & DA { 'bāAbāZābZ } bAYāZAZZā'āāAYbbYāZZDAYāZā \ Y & 'bAb^AbāZā  
 Raa'YZā^aATb \ ZZābAŁ Yb' | b' ZāĀRTŁ BAa^@AY~@^ | YāÉ

GÉA ŁābZ@A [ \ @ @Z\* \ Zābā'āAY~@^ | ZZDA [ \ A & Y [Aā'āāAbāZāAa^@A~\Yā'Yb [AYYāZāZY@ā^YbZāZā'āAbāZā  
 RTŁÉ

+1> \*78

ÉÉA O }YZ~bA { āZbZāā^bZZDAāā [ ZāāY@ZāābA~Z@ & 'bbZZA^āAYā [A { YāāDA { 'āZ^ { āDAZ^@āDAābY' { ZāāāDA  
 áY@YāZāYāāA^@Y^ā \ & āā^āāY^Y & ~ \ āÉ

ĐÉA Cēā [ ZāāY@ZāābA~Z@ & 'bbZZAb^AYZ | Zāb'āZāYāY^ā^ā'YAZ@'āāā~Z'YāāDAZ | ZābāA { āZbZābāZā~@' & Y@ [A  
 ~\ @~^āZā'āZ@'āā'āāDA^@AbāZā@AYb' | b' ZāAbāYbAY~Z'Y@Ab^A~@^ & ^bZā' @Zā~^āā'YāZā^@ā'āZāYāA  
 YāY^ā^ā \ āZÉ

€ÉA ŁāāAā [ ZāāYāZāā'āāāāā \ āZāY^ābY'āAbāZāāY & Zā^aAbāZāā~^āā^@'āā^@āYā' ]Yb'āāDAYāZ'Y@ā [A  
 & Y@āZDAYāA { ZāāAYāY^ābYbA'āa^@ & Yb'āāA~āāZāYāZÉ^@ZÉ & Y'ā^aAbāZāā~^āā^@'āā  
 ^@āYā' ]Yb'āā^@AZZ~Y@b & ZābBÉ

FÉA Cēā [ ZāāAbāYbA~@^ & ^bZā & ZāāYāZāAbāYbAY@ZāY^āb@Y@ [ Ab^AbāZāŌZā \ 'bAYāZāNYbā^ā'YāY@YbZ@AYāZA  
 & āā'āā^AbāZā \ ā' | Zāā' b [AY@Zāā^bA~Z@ & 'bbZZÉ

GÉA Ł~@^ | ZZAāā [ ZāāA & Y [AYZā~^ābZZA^āZābYā'āāZZAY \ āāZb'āY^Y@Zāā'āAYā [AY' \ āZ'āā^āāY^Y & ~ \ āÉA  
 Ū bāA~Z@ & āā'āāDAY~@^ | ZZAāā [ ZāāA & Y [AYZā~^ābZZA'āAbāZā@Zā'ZZāYZāāYāāAYāZā^āA  
 ZZ~Y@b & ZābAY \ āāZb'āY^Y@ZāÉ

HÉA Q^Aā^ā'YbYb'āā'āA~Z@ & 'bbZZA \ āZZ@AZ^@āā'āAYā [A@Zā'ZāYZāYāāA^@AY' \ āZ'āā^āāY^Y & ~ \ āÉ

IÉA bāZāAbYaaA'āAbāZāRaa'YZā^aATb \ ZZābAŁ Yb' | b' ZāA { 'āā~^ābAāā [ Zāā^āāYā { ZZāā [AYYā'āAa^@Z } bZā'āYāA  
 ā@^ \ ~āA'AbāZ [AZZā'@ZÉ

ÍÉA Rāā [AŠZā'ZāYZāŌ'āZā~Z@ā^āāZāAY@ZāYāā^ { ZZAb^A~^ābAāā [ Zāā'āAbāZāY^ & ^āAY@Z'Yā^AbāZā  
 @Zā'ZāYZāYāāāÉAŁ Ab^bYāA^aAHFA'Y~'ZāA & Y [AYZā~āY'ZZA'āAbāZāāYāā^aa'YZā & Y'āY^} ZāA^YbZā'āA  
 bāZāRaa'YZā^aAŠZā'ZāYZāŌ'āZÉAOYāAāYāā^aa'YZā & Y'āY^} AāYāAYAZZā'āāYbZāA \ & YZ@A & Y@āZZA  
 ^āA'AbāYbA@Z~@ZāZābāAbāZāā \ & YZ@A^aAāā [ ZāāAbāYbAYāYZā~āY'ZZA'āāZ'Yā & Y'āY^} ÉA bāZā  
 ā \ & YZ@āAY@ZābāZāA^āā { 'āāĪĖÉY^~'ZāAY@ZāāZZZZA^@ANY & ~^āAYāZāŌY & ^āDAÉÉAa^@A  
 T \ b^ { āā'AYāZAS'YZāā'DĀÉHAa^@AbāZāMZ@āZbDA P'āā^@DAYāZāŃ^āYāDAYāZāÍ Aa^@AP \ @~ā [É

ÎÉA ŁāāAāā [ ZāāAY@ZāY~@^ | ZZAYāZāābY & ~ZZAa^@AY~@^ | YāDA'āYā \ Z'āāAYā@Z & ^ | YāZ'YbZāY [ AbāZāRTŁA  
 Āā^YbZāZā'āAT \ b'ZāĖĖÉA^AbāZāŃĖOĖA^&Y@Z^ATb \ ZZābANZābZ@DAY'Y | ZābāZāY^āāāb^@ZBÉ

ÈÉÉA bāZ@ZāY@Zā' " " Y \ āāZb'āAY^Y@Zāā \ āZZAa^@A~āā'āāāā [ ZāāÉ  
 M \ āāZb'āAY^Y@Zāā^Yb'āāāY@ZāĪ 8RSBCLR ( CLRCP & RP@SK EAĀŁ'Y^Y@ZāAY^@āāAa^@ & Aāb \ ZābA  
 & Y'āY^} ZāDAĀfī'Y^Y@ZAb^AbāZā@'āāb^aAbāZāZāZ'Yb^@DA^āAbāZāāY & Zāā^@AYāāŠZā'ZāYZāŌ'āZāYāZā  
 Āfī'Y^Y@ZAY^@āāAa^@ & AbāZāŌ P Aā [ & AY [ AbāZā | ZāZ'āāA & Y'ā'āZāDA & ) @S@JbGLE EAĀfīBAY^Y@Zā^āA  
 bāZāD@Zāā^@DAY^@āāAa^@ & ANYbāā'YATb \ Z'ZāDA ' MJCP 8AFMMJ MD ' SQGLCCQ EA'fī'Y^Y@Zā^āA  
 bāZāĖ^@Aāā^@DA ) MJ?L 8AGCLAC ( CLRCP EA'fīBAY^Y@Zā^āAĖ^@Aāā^@AEAZ'YābA { 'āāDAY^@āāAa^@ & AbāZā  
 | ZāZ'āāA & Y'ā'āZāÉ

**4 : 9 ) 4 4 7 8 9 & 0. 3 , / 8 . , 3 8**

ÉÉA S\Ýá'Ýb[AābYæ'ááAYáZÉ^@Aā'áāāYYāAY'ZA\āZZA^Y'Yā'áYāā[Ab^A~@^&^bZAZ|ŽābāA^@AY'Yb|b'ŽāÉ

ĐÉA P^AáŽbA~Ž@&'āā'^āAa^@Abā'āAa^@&A^aA~\Ýá'Ýb[DA~āZYāŽAÝ^&~āŽbŽAbāŽARaa'YŽA^aATb\ZZābA

Ł'Yb|b'ŽāA S\Ýá'Ýb[AŠŽ\* \ŽābACE^@&DA { 'bāAbāŽAbZ} bDAZZā'áāAYāZA^AY'Yb'^āAYbbY'YāŽZDAYāZAā\Ý&'bA

b^AbāŽARaa'YŽA^aATb\ZZābAŁ'Yb|b'ŽāĀARTŁBAa^@AY~~@^|YāÉ

**85 \* ( . & 1 5 7 \* 8 \* 3 9 & 9. 4 3 8**

ÉÉA Łā[Aā~ŽY'YāA~\Ýá'Ýb[A~@ŽāŽābYb^āāābA^A\āā'āZZA'āAbā'āA~ā'Ý[A&\ābAYŽAY~~@^|ŽZAbā@^ \ āāAbāŽA

RTŁÉ

ĐÉA PāŽA^@áYá'Yb'^āDZŽ~Y@b&ŽābA^@Aá^@A~A&\ābAY^&~āŽbŽAbāŽARaa'YŽA^aATb\ZZābAŁ'Yb|b'ŽāA

S\Ýá'Ýb[AŠŽ\* \ŽābACE^@&DA { 'bāAbāŽAbZ} bDAZZā'áāDA^@A^bāŽ@AZZāY@~b'^āAYāZA^AY'Yb'^āAYbbY'YāŽZDA

YāZAā\Ý&'bAb^AbāŽARaa'YŽA^aATb\ZZābAŁ'Yb|b'ŽāĀARTŁBAa^@AY~~@^|YāÉ

**89 : ) \* 3 9 2 & . 1 ' 4 = \* 8 8 9 : + + \* 7 8**

ÉÉA CEā[Ž@āAYYaAY'ZA~āY'YZZA'āā'ZZA'āZ'|Z\Yaāb\ZZābA&Y'áY^}ŽāA { 'bāAbāŽAY~~@^|YāA^AbāŽARaa'YŽA^aA

Tb\ZZābAŁ'Yb|b'ŽāĀARTŁBÉA PaŽ@ŽAY@ŽAYAb^bYāA^aÉĪÉĒAāb\ZZābA&Y'áY^}ŽāÉ

ĐÉA P^AáŽbA~Ž@&'āā'^āAa^@Abā'āAa^@&A^aA~\Ýá'Ýb[DA~āZYāŽAÝ^&~āŽbŽAbāŽARaa'YŽA^aATb\ZZābA

Ł'Yb|b'ŽāA S\Ýá'Ýb[AŠŽ\* \ŽābACE^@&DAYbbY'YāAbāŽāā[Ž@Ab^AbāŽA@Ž\* \ŽābDAYāZAā\Ý&'bAb^AbāŽARŁA

a^@AY~~@^|YāÉ

€ÉA ŠŽ\* \ŽābāA & \ābAYŽā\Ý&'bŽZZAYbAāŽYābAbŽāAZY[āA'āAYZ|YāYŽÉAŁabŽ@A[^\@A@Ž\* \ŽābA'āA

Y~~@^|ŽZDA[\^A&\ābAY^ābY'YbAbāŽāā\~Ž@|'ā^@A'āAbāŽAPY'āANŽābZ@Ab^AāY'āZZ\āŽAYAb'&ŽAb^Aāb\āa

bāŽA&Y'áY^}ŽāÉ

**3 & 5 0. 3 - 4 1 ) \* 7 8**

ÉÉA QY~æ'āAā^āZZ@āAYYaAY'ZA~āY'YZZA'āAbāŽATYā^bbAŃ'ā'āāOYāaAYáZÉ^@AO'āabž'āAMYāžāÉA PaŽ@ŽAY@ŽA

ĐÉĒAāY~æ'āAā^āZZ@āA'āAbāŽAŃ'ā'āāOYāaAYáZaY'YŽābAY@ŽYāÉ

ĐÉA PaŽA^@&YbAa^@AbāŽAāY~æ'āAā^āZZ@A~\Ýá'Ýb[A'āAYa@ŽYbYāāāŽAbāYbA'āAHA'āYāŽāAŪAFA'āYāŽāÉA

O@^~āA { 'āāA^āā[A'Y'YāY'YāŽAb^A~@'ābA^āA'āŽā'ZŽÉ

€ÉA QY~æ'āAō^āZZ@āA { 'āāY'Yā@ŽāZ@|ŽZA^āAYAa@ābEY^&ŽDAa@ābEāZ@|ŽZAY'Yā'āAYāZA^āā[A b { ^AbY'YāŽAbŽābA

~@^&^b^āāA { 'āāY'YāYā^@ { ŽZ^A^āAbY'YāŽāAYbA^āŽAb'&ŽÉ

FÉA P^AáŽbA~Ž@&'āā'^āAa^@Abā'āAa^@&A^aA~\Ýá'Ýb[DA~āZYāŽAÝ^&~āŽbŽAbāŽARaa'YŽA^aATb\ZZābA

Ł'Yb|b'ŽāA S\Ýá'Ýb[AŠŽ\* \ŽābACE^@&DA { 'bāAbāŽAbZ} bDAZZā'áāAYāZA^AY'Yb'^āAYbbY'YāŽZDAYāZAā\Ý&'bA

b^AbāŽARaa'YŽA^aATb\ZZābAŁ'Yb|b'ŽāĀARTŁBAa^@AY~~@^|YāÉA PaŽ@ŽAbZ} bAZ^Y\&ŽābA & \ābAY'ZA

YbbY'YāŽZÉ

GÉA ŁabŽ@A[^\@A@Ž\* \ŽābA'āAY~~@^|ŽZDA[\^A&Y[Aā'āAbāŽAbY'YāŽAbŽābAY'YāŽāZY@Aā^Y'YbZZA'āAbāŽARŁAÉ

**5 4 8 9. 3 , & 5 5 7 4 ; & 1 5 7 4 ( \* ) : 7 \* 8**

ÉÉA ŁāāAā[Ž@āAYāZYāāZ@āAY@ŽAY~~@^|ŽZAYāZAābY&~ŽZAa^@AY~~@^|YāDA'āYā\Z'āāAYa@Ž&^|YāAZYbZDA

Ý[AbāŽARTŁAĀā^AY'YbZZA'āAT\ŽAbĐĒEA^AbāŽAŃÉAĒAĒO^&Y'Y@Z^ATb\ZZābANŽābZ@DAY'Y^|ŽAbāŽA

Y^~āb^@ŽBÉ

ĐÉA RbāŽ@Aā~ŽY'YāA~\Ýá'Ýb[AZZāY@'Y'YZZAY'Y^|ŽA & \ābAYŽā\Ý&'bŽZAb^AbāŽARTŁA { 'bāAbāŽAS\Ýá'Ýb[A

ŠŽ\* \ŽābACE^@&AYāZA { 'bāAbāŽAbZ} bDAZZā'áāAYāZA^AbāŽA~Ž@b'āžābA'āa^@&Yb'^āAYbbY'YāŽZÉ

\* 3+47 ( \* 2 \* 39

ÉÁ pāŽARTŁAābYaaA { 'āā&^ā'b^@AYāZA&Y'ābY'āAbāŽAY\āāŽb'āAY^Y@ZāDAZ^@āDAYāZA { 'āZ^ { āā'āAbāŽA  
 Tb\ZZābNŽābŽ@AYāZAYāA^aaAZybZZA^@A\āY~^@^|ZZAāā'Ž@āA^@AYYāāŽ@āH^āYA { ŽŽāā[A'Y'Yā'āÉ  
 ĐÁ pāŽARTŁAābYaaA { 'āā&^ā'b^@AYāZA&Y'ābY'āAbāŽAY\āāŽb'āAY^Y@ZāDAZ^@āDAYāZA { 'āZ^ { āA^āAbāŽA  
 ŃÉÁŌÉÁŌ^&Y'Y@Z^ATb\ZZābNŽābŽ@A^āAY'É { ŽŽāā[A'Y'Yā'āÉ  
 €Á pāŽAŁ\ } 'ā'Y@[ATŽ@|Y'ZāAYāZĀŌ^āāZŽ~'āāZŽ~Y@b&ŽābāA { 'āā&^ā'b^@A\āY\ba^@' ]ŽZA  
 ~āb'āāā'āAYZ&'ā'āb@Yb'|ŽY^&&^āAY\ā'āāāZ}YŽ~bA { āZ@ŽAā^bŽZAY'Y|ŽÉ  
 FÁ ĆEY'Y\ab [DAābYaaDAYāZAāb\ZZābāAY@ŽāŽāY'\@YāŽZAb^AbYāēZAZ^ { āZYbZZAāā'Ž@āYāZAY'@'āā  
 \āY~^@^|ŽZA^@A\* \Žāb^āY'Zāā'Ž@āAb^AbāŽAYbbŽāb^āA^AbāŽARTŁAābYaaAYāāŽŽŽŽÉAbāŽA^aa'Y'ŽA  
 ābYaaA { 'āāA^āā^ { A\~A { 'bāAYā [AāYāYb^āāābāYbAY@ŽāāŽŽŽŽAa^@A~ā'Y [A|'ā'Yb'^āāÉ

7 \* 8.) \* 3 ( \* 1.+ \*

Ō'j'āāā^āAYY&~\āā'āAY@Žā'ZZāY'ZāYāā'āHAY\ā\* \ZAYāZA { ^āZŽ@a\āZ}~Ž@'ŽāY'ZDAYAY'YbYā [ābAa^@A  
 ~Ž@ā^āYāA^@^ { bāYāZā'āZŽ~ŽāZŽāY'ZÉŌbA~@^|ZZāA'āā\&Z@Y'YāZā^~^@b\ā'b'ZāAb^Aā|ŽA { 'bāA^bāŽ@āA { ā^A  
 Y@ŽAZ'aaŽ@ŽābAa^&A [^\@āZāaDAb^AY'Z'Y^&ŽAYāāŽYZZ@DAb^AY^&& \ā'Y'YbŽA { ŽāaDAb^A&YāYāZāY'āā'YbāA  
 ā\Y'Zāāa \āā [DAb^A&YāēZāA^āZAZŽ'ā'^āāDAYāZAb^AY^AYZZāA [^\@A~Ž@ā~Ž'Yb'|ŽA^āAbāŽA { ^@āZÉ

ŪŽA'ā|'bŽA [^\Ab^AŽ&Y'Y'ZābāZā~'@'bA^aAY^&& \ā'b [DAbYāēZāA^&Zā@'āāāA { 'āā'āāā [DA&ŽŽbA [^\@AYāYāāZāāZāA  
 YāZA@Zā~^āā'Y'ā'b'ZāAā^āZābā [DAāZY@āAa^&A [^\@A&'ābYāēZāAā\&Yā [DAYāZā@Zā~Ž'YbA [^\@āZāaDA [^\@A  
 āZ'āāY^@āDA [^\@AY^&& \ā'b [DAYāZA [^\@AŽā|'^ā&ZābAŽāZ@āZb'Y'Yā [É

Łābā^\āāAbāŽAUā'|Ž@ā'b [AāYāāZābābYāZY@ZāA^aAY'ZāY|^@Aa^@AYāāAāb\ZZābāDAā^&ŽAYZZ'b'āYāAá\ZZā'āZāA  
 Y@ZāāZ'Y'ZāāY@ [Aa^@Abā^āZā { ā^Aā'|ŽAb^āZbāZ@A'āAbāZā@Zā'Zā'ZāY'ZāYāāāÉAN\@'āāAY^&& \ā'b [A&ŽŽb'āāāA [^\A  
 { 'āāAbYāēAY'Y\baā^ { AZ|Ž@ [^\āZAY'YāAāā^ { AZ'YāA^bāZ@A@Zā~Ž'YbÉACE^@A\* \Žāb'^āāA^@AY^&&ZābāDA~āZ'YāZā  
 Y^ābY'YbAbāZARaa'Y'Zā^aASZā'ZāY'ZāŌ'āZAYbAāĐÉHBAÉÍÉFFÉÍDA@Zāā'āZ L āY'ÉZZ\DAYāZÉ^@A|'ā'bA^@A { Ž'Yā'bZā  
 YbIAābb~IÉÉā'bZāÉāY\ÉZZ\É@Zāā'āZÉ



&RFJCRGA COSGNKCLR &Y[A^abAYZ\ aZZA'AbazZa'ZzAYZaYaaA^A' & &ZZ'YbZa[AYZaYyZabAb^A@Za'ZzAYZa  
aYaaAZ^^@aAYaZA { 'az^ { aEAbá'áA'áY\ ZzAY\ bA' aA^bAa' & 'bZZAb^IAaæYbZAY^Y@ZaiA@^aaZ@AYaYZZaiAYY@^aaZa  
YaZAa^YæZ[AZ\* \~&ZabIAa^aaAYaZAYaZYYaaAZ\* \~&ZabIAYYaæZbYaaDAY^ { á'aaAYYaaDAa^bYaaDA@ \ aY[A  
YaaDAa^YyZ@AYYaaDA | ^aaZ[AYYaaDAabZaa'aaYaaAAYaZA@YY\* \ ZbAYYaaDAa@ 'aYZZaDAYaZAaY^bZ@aEak baaZb'YA  
Z\* \~&ZabA&Y[A^aa[AyZAb^@ZZA'aA@Za'ZzAYZaYaaA^A^ & aDAYaZA'aA^bA~Z@ & 'bbZZA'aAaYaa { Y[ aDAY^ & ^aA  
Y@ZYaDA@Zab@^^ & aDAZbYÉ

'GICQ Y@ZaA^bA~Z@ & 'bbZZA'aAa^ \ aaZaA^AAbY@ { ZaaEAbazZaY@ZaA^AAb^YaZaAYy'a'b'ZaAY|Y'aYyaZaA^AY'æZaA

Ú a ž a Y ž Y á ' á á A ā b Y a a A Ā ^ @ A b ā ž A & Y ' ā b ž a Y ā Ÿ ž A ā b Y a a B A Y @ ž A ' ā A Y A @ ž ā b @ ^ ^ & A b ^ A Y ž ž Y ā A ^ @ A & Y æ ž A @ ž ~ Y ' @ ā D A b ā ž A  
ž ā b @ Y ā Ÿ ž A { ' ā ā Y ž A Ÿ ā ^ ā ž ž A Y ā ž A Y ā ^ Ÿ æ ž ž A ^ @ @ ^ ~ ž ž A ^ a a Ě A O b A ' ā A & Y ā ž Y b ^ @ [ A b ā Y b A ā b \ ž ž ā b ā \ ā ž A Y ā ^ b ā ž @ A  
@ ž ā b @ ^ ^ & A ž \ @ ' ā ā A b ā Y b ā b ' & ž Ě A b ā ž A \ ā ' | ž @ ā ' b [ A @ ž ā ž @ | ž ā b ā ž A @ ' ā ā b A b ^ A b Y æ ž ž A ž ' ā Ÿ ~ ā ' ā Y @ [ A Y Ÿ b ^ ā ā Y á Y ' ā ā b A Y ā [ A  
ā b \ ž ž ā b A { ā ^ A | ^ ā Y b ž ā A b ā ' ā A ~ ^ ā Ÿ [ Ě

(MK KML ?PC? QN?AC

\*JCARP6A?J ?NNJG?LACQ & \ābāYŹA'āYŹ^&~ā'YāYŹA { 'bāAbāŽAā^\ā'āáYāZaA@ŽAY^ZŽāA^AbāŽAN'b[A^aA  
Uā|Ž@ā'b[AŌŽ'áābāÉAOYŹāY~ā'YāYŹA & \ābāYŹAUŌAY~@^|ŽŽÉĀĽ~~@^|ŽŽAY~~ā'YāYŹāA'āYā\ZŽābŽ@Ž^āDA  
Y^&~\bŽ@āDAbŽāŽ|'ā'^āāDAŇÚŇA~āY[Ž@āDA@Ža@'āŽ@Yb^@āĀFĒHĀY\Y'YāŽŽbA^@Aā&YāāŽ@BDA&'Y@^ { Y|ŽāĀĒĀY\Y'Yā  
a^bāYāZa\āŽŽ@A ÍĒĒ { YbbāBDAYāYāāŽbāDAaYāāDAY^āāŽŽA&YāāŽ@āDAZŽāāā'āābāDAāY'@AZ@|Ž@āDAāY'@A  
āb@Y'āābŽāŽ@āYāZaY\@ā'āāA'^āāĒĒRāŽA@Ža@'āŽ@Yb^@A'āYāā^ { ŽŽA~Ž@AābYāZY@ZĀZ^YāZa@^&AYāZa\~Ab^A  
b { ^Aa^@Abā'āŽA'āZŹ}~YāZŽZa^YŹ\~YāY[A@^&āĀb@~āŽāYāZa\* \YZāBÉAS@^ā'Y'bŽZa'bŽ&ā'āYā\ZŽA  
b^YābŽ@āDAb^YābŽ@A^|ŽāāDAā^bA~^bāDAā \āāY&~āDAŽāŽYb@'YāāāāāŽbāYāZa { ^āāDAā'āāāā'āYā\Z'āāAbāŽA  
ÓŽ^@āŽĀĒ^@Ž&Yāāā'āāBDA^'ā~^~Y^@āA~^~Z@āDAā~YŹAāŽYbŽ@āDA~Ž@Y^Yb^@āDAY'@AY^āZ'b^āŽ@āĀ\āāŽāā  
&ŽŽ'Yāā[AY~@^|ŽŽBDAāYā^āŽāY\āYāY&~āDAYāZa~^b~^@\@'AY\@āŽ@āĒRāā[AUŌAY~@^|ŽŽDAY'@Y\^bA  
Y@ŽYāŽ@Ab[~ŽāŽ}bŽāā'^āY^@ZāAYāZa~^ { Ž@Eāb@~āA&Y[AYŹA\āŽŽĒĀĽā[AŽ]bŽāā'^āY^@Za { 'bā^\bAYāā\@āŽA

.+ >4 : ( &3349 1 \* &; \* >4 : 7 7442 ' \* ( & : 8 \* 4+ .39\* 38\* - \* &9 47 8240 \* , 9&0 \*  
9 - \* +4114 <.3 , 89\* 58%

ÉÉÁ SàYŸŽAYAb^ { ŽāYbAbāŽāYāŽā^AbāŽāZ^Ab^~@Ž | ŽābAā & ^æŽAa^ & AY^ & 'ááA' ab^AbāŽA@^ & É  
ĐÉÁ ÓYááAYāāŽŽbA^ \ bA^AbāŽA@^ & A { 'áz^ { Ab^A' 'áz'YbŽAbāYbA [ ^ \ AY@ŽAbāŽŽÉ  
ĚÉÁ NYāāĐÉHE€Ī | EÉĐ€FAb^A' | ŽAÓNUSŇA [ ^ \ @A^AYb^A'áÉ

Ě'ŽAZ@'āāAY@ŽAY^áZ\YbŽZA'āHŽYŸA@Žā'ZŽāYŽAaYāāŽYŸāAāŽ & ŽābŽ@ÉACEY'á'ááAb^AŽ | YŸ \ YbŽAbāŽAY' 'áz'ááA  
Z\@'ááAYāAYāY@ & A { 'āā@Žā \ bA' 'āAZ'āY'~'āY@ [ AYŸb^A'áÉ

pāŽA'Uá | Žā'b [ AŌŽ'áābāACE'ŽA PY@āāYāā'āā~ŽŸbāŽYŸA'Uá | Žā'b [ AY' 'áz'ááA^āAY@Žā \ āY@AāYāŽZ \ āŽÉpāŽA  
Ě'ŽA PY@āāYāā & Y [ AŽābŽ@AYā [ A@^ & A { 'bā \ bā^b' a'YŸb^Ab^AZŽbŽ@ & 'āŽA' a' b'ā'ā'ā' | ^āYb^Ab^Aa@'ŽA'YāŽb [ A  
~^ā'Y'ŽáÉ

NY \ á'ááAYaYāāŽAYāY@ & A Y [ A' áZ \ YŽA~Yā'YAYāZAYŸ@ [ AāŽ | Ž@ŽAY^āāŽ\* \ ŽāYŽāÉACEYāāŽAYāY@ & āY@ŽYbŽAYāA  
Žā | ^ā & ŽābA { āŽ@ŽAāb \ ŽŽābāA^AbŽāA'áá^@ŽAbāŽAYāY@ & AYāā \ & 'ááAbāŽ@ŽA'āā^AZYāāŽ@ÉAŌáá^'ááAYāA  
YāY@ & A Y [ AYŸ \ āŽAāb \ ŽŽābāAb^AYŽŸ^ & ŽA'āā \ @ŽZDA^ | Ž@Y^ & ŽAY [ Aā & ^æŽDA^Ab^Aā^āŽAbāŽ'@A' | ŽāÉ  
pāŽ@Žā^@ŽDAbāŽA'Uá | Žā'b [ AbYæŽāAbāŽAYŸb^āāA^AbY@ & ~Ž@'ááA { 'bāA@'ŽAYāY@ & āDAā & ^æŽAZŽbŽŸb^@āDA  
ā~@'āāāŽ@āDAYāZA@'ŽAŽ' } b'áá \ 'āāŽ@āA { ā'YāAb@'ááŽ@AYāAY@ & A | Ž@ [ AāŽ@' \ āā [ É

pāŽAa^āā { 'ááA { 'āāYŽAY^āā'ZŽ@ŽZAYāAā \ aa'Y'ŽābAYŸ \ āŽAa^@A' & ŽZ'YbŽA'ābŽ@' & Aā \ ā~Žāā^āAa@^ & AbāŽA  
Uá | Žā'b [ A~ŽāZ'ááAYAY^áZ \ YbAāŽY@'ááĪ

ÉÉÁ ÓābŽāb^āYāā [ AāŽbb'ááAYAa'ŽA^aAYā [ AāYb \ @ŽÉ  
ĐÉÁ S \ āā'ááAYAa'ŽAYāY@ & A { āžāA^AZYāāŽ@'āā~@ŽāŽābÉ

pāŽAa^āā { 'ááA { 'āāYŽAY^āā'ZŽ@ŽZAā \ aa'Y'ŽābAYŸ \ āŽAa^@A' & ŽZ'YbŽA@Ž & ^ | YāAa@^ & AbāŽA@Žā'ZŽāYŸAāYāāA  
~ŽāZ'ááAYāāŽY@'ááĪ

ÉÉÁ P'ā \ āŽA^aAa'ŽAŽ' } b'áá \ 'āāŽ@āÉ  
ĐÉÁ pY & ~Ž@'ááA { 'bāAbāŽA~@^bŽŸb' | Žāā^Za^āAa'ŽAYāY@ & A~ \ āāAbYb^A'āāÉ  
ĚÉÁ ŠŽ & ^ | 'ááAYŸbbŽ@'ŽāAa@^ & AY@^ & Aā & ^æŽAZŽbŽŸb^@É

, ?K@JGLE 'āA~@^ā'YbŽZĪ

, SCQRQĪ OāY^@b'ááA [ ^ \ @A \ ŽābāA'āAbāŽAāYāā { Y [ āDAYŸbā@^ & āDAYāZā^ \ 'ááŽāA'āA [ ^ \ @A@Žā~^āā'Y'ā'b [ ÉA  
pā'āA'āYā \ ŽŽāA@Žā'ZŽābāA^AbāŽ@AY' 'Z'ááāA { ā^AY@ŽA | 'ā'b'ááA [ ^ \ ÉAŌ \ ŽābāA^aA@Žā'ZŽābāAŽZā'áŽZAYāA  
bā^āŽA { ā^AY@ŽA^AbAYā^YŸ \ ~YābA^AbāŽA@^ & BAY@ŽA~Ž@ & 'bbŽZAb^AbY [ A^ | Ž@ā'áābAŸ \ bAY@ŽA^Abā~Ž@ & 'bbŽZ  
b^AbābY [ A & ^@ŽAbāYāAb { ^AY^āāŽŸ \ b' | ŽAā'áābāBā'āAbāŽA@Žā'ZŽāYŽāYāāA~@^ | 'ZZZAbāŽA \ ŽābA'āA^AbāŽAāY & ŽA  
āŽ'AYāAbāŽAā'āb'āāA@Žā'ZŽābÉA.R GQ GKNMPR?LR RF?R RFC PGEFR MD ? PMMK K?RC RM NPQT?AWA  
QSNCPQCBCQ RFC PGEFR MD RFC PMMK K?RC RM F?TC ESCQRQ GL RFC PMMKĪ Ù^ \ AY@ŽA@Ž & 'āŽZAbāYbA  
[ ^ \ AY@ŽA@Žā~^āā'YāŽAa^AbāŽAYŸb^āāA^Aa [ ^ \ @A \ ŽābāAYāZA { 'āāYŽAāŽāZAYŸŸ^ \ ābYŸāŽAa^AYā [ AZY & YāŽāDA  
ā^āāAa~@^~Ž@b [ DA^AYŽāY | ^AbāYbA'ā'ā'b'YbŽZAY [ A [ ^ \ @A \ ŽābāÉAŪ^ \ Aāā^ \ āZAYŸŸ^ & ~Yā [ A [ ^ \ @A \ ŽābāA  
YbAYāāb' & ŽāA { ā'āŽA^āYŸ & ~ \ áÉ



Ń\ \ 'ááAa'áYáāA { ŽŽæDA \* \ 'Žbāā\ \ āAY@Ž'āAŽaaŽYbADFāā\ \ āAYAZY [ÉAŁA | 'āYb'āA^āAbāžāŽA \* \ 'Žbāā\ \ āA { 'āā  
@Žā \ ābA'āAYā~ŁŽ DGLCDAYāZAYā [Aā \ Yāž\* \ 'Žāb | 'āYb'āāA & Y [A@Žā \ ābA'āAbāžAG K KCB?RC PCKMT?J DPM KA  
RFC PCQGBCLAC F?JJQ DMP RFC PCK?GLBCP MD DGL?JQ UCCL

7CN?GPQ b^Aāb \ ZŽābA^A^ & āYŸYāYŽA@Ž\* \ ŽābZZAYbĪA  
[ābb~āīĒ { { { Ē & \[āYā^āY\ \ 'āZ'āāĒY^Ē&Ē & \[āYā^āY\ \ 'āZ'āāĒ & āYŽZāY\ \ ābFYā~KYŸYbā \ & JGFDPHEĒ Ī ĪDÀTŽ@J A](#)  
YŽŌ^ā āJÉAŁāāAŽ\* \ ŽābāAā^Ab^āZACEYŸ'ā' b' ŽāANŽ~Y@b & ŽābAYāZA { 'āāYŽAYZZ@ŽāāZZA { 'bā'āFĪAā^ \ @āÉAŌā' bA  
'āAYāAŽ & Ž'āžāY [DA~āZŸYāZāŽbA [^ \ @A ŠŁDATŠŁDALNDAYāZÉ^@AŌNUSŌAēā^ { ÉA T b \ ZŽābāAY@ŽĪā^bAYŸāŽAb^A  
āYāZZ \ āZAY~^ āb & ŽābāA^@A & Y'ābžāYāYŽAb^AŽābž@Abāž@A@^A & Aa^@AbāžA@Ž~Y'@ÉA PY ābžāYāYŽābYaa'āA  
ā^AbA~Ž@ & 'bbZZAb^Ažābž@Aāb \ ZŽābA^A^ & ābA^~Ž@A^@ & A@ž~Y'@āA \ āb'āÉĒĒAYÉ & ÉDA \ āžāā' bA'āYāAŽ & Ž'āžāY [ÉA  
Pāž [AY@ŽA~Ž@ & 'bbZZAb^A { ^@ēA'āAYāāY^A & & ^āAY@ŽYā^āAbāžA@Žā' ZŽāYŽāYāāAYāZAYŸbā^A^ & āYŽā'āā'āā  
YbAĪAYÉ & ÉA Ū āžāYŸbā^A^ & āAY@ŽA^N^āžZcA^@A & Y'ābžāYāYŽA^AŸāYā'āāDAZ^A^ā^bābž@AbāžA@Žāb^A^ & ÉA  
ŌāābžYZDA \ āžAYāAYābž@āYbžAYŸbā^A^ & A'āAbāžāY \ 'āZ'āāĒPāžAUā | Ž'ā' b [A@žāž@ | ŽāAbāžA@'āAbAb^AbYæŽA  
Z'āY'~ā'āY@ [AYŸb'āāYāY'āābAYā [Aāb \ ZŽābA { ā^A | 'āYbžābā'āA~^ā'Y [Ē

7CQGBCLAW 7COS@PCKCLRĪ ŁāāŽābž@'āāAāb \ ZŽābDA^AAbAYZ'b'āYāYāžDAžZZAb^AžŽYāY@Žābāž@'AābYb \ āAYāA  
YA@Žā' ZŽābA^AY^A & \ bž@Abā@^ \ āāAbāžAŌā@āā & ŽābAŠžāž@ | Yb'ā^ACE^@ & AāžābAY [AbāžARāa'YŽA^A  
ŁZ & 'āā'āĒPā^āžāA^bAY^A & \ b'āāA^A^ & Aā^ & ŽAY@ŽAŽ\* \ 'ŽZAb^Aā' | ŽA^āYŸ & ~ \ āAž \ 'āābāž@'Aa'@āb { ^A  
[ŽY@āĒPā^āA~^ā'Y [AYāā^AY~~ā' ŽāAb^Abā^āžA { ā^AbYāāāžA'āb^AbāžAUā' | Ž'ā' b [AYāAb^YZ'b'ā^YāA'@ābE [ŽY@A  
āb \ ZŽābāĒAN^A & \ b'āā'āAZŽā'āžZAYāA' | 'āāž'Yā \ ā' | Žā [A'āAbāžA~Ž@ & YāžābAYāZA~@' & Y@ [A@Žā' ZŽāYŽA^AAYA  
~Y@žābA^AāžāYāā \ Y@Z'YāĒARāYžAYāAb \ ZŽābžābYŸā'āāžāā'āāž@AābYb \ āAYāAYāŽā' ZŽābDAāžĒāāžA & \ ābA  
āžZæAY~@^ | YāA^@AYAYāYāāžA^āAbYb \ āAb^AY^A & \ bž@ÉACE^@ & YāA@Ž\* \ 'ŽābāYŸYāYŽA & YZZAbā@^ \ āābāžA  
Rāa'YŽA^AŠžā' ZŽāYžAŌ'āžA^AY^āā'žž@Yb'āāY [AbāžAŌ^ \ ā'āāAN^āb^YŸbAŠž | Ž { AM^AY@žĒ

7MMDQ JCBECQ ?LB @?JAMLGQ Y@ŽA^āāA' & 'bāA^@AbāžāYāžb [A^aAYāāÉAŪ \ AY@žā^bA~ž@ & 'bbZZAb^A~ \ bA  
āā^žāDA^A^ZDA~āYābDAžYÉA^āāžāžāA^AYŸY^ā'žāĒ

7MMK (MLBGRGMLĪ Øžž~A'āA & 'āZāYāžb [AYāZAbāžAYŸ'ā' b [Ab^Až] } bAa^A & A [^ \ @A@^A & A { āžāAYZZ'āāA  
a \ ā' b \ @žĒAŁā [Ab [~ŽA^aA~Y@b' b' ^āA^@āYāā'āāA & Ybž@ YāAbāYbA@ž~@žāžābāYā~^bžāb'YāAa'@žāY]Y@ZA { 'āāA^bA  
YŽA~ž@ & 'bbZZAĒÉžĒAYāāž@ÉbY~žāb@žāāYāā'āāA | Ž@ā & ^æZāžžbžYb^āA^@AZžY^@Yb' | Žāā'āābāYāā'āāA  
a^A & AbāžAYž'ā'āāBÉAŪ \ \ & Y [AāYāāA [^ \ @A^ { āY \ @bY'āāDAŸ \ bAUā' | Ž'ā' b [E'āā \ žžAZ@Y~žāA & \ ābAYžA@žĒā \ āāA  
YžA^@žāYāžYæ'āāA \ bA^AbāžA@^A & ÉA Ū Ybž@YžZāAY@žā^bAYā^ { ŽZā'āAbāžA@žā' ZŽāYžAāYāāā&J DSPLGRSPCA  
NPCQCLR GL RFC PMMK BSPGLE AFCAI'GL KSQR @C NPCQCLR GL RFC PMMK ?R AFCAI'MSRĪ Ū \ AY@žā^bA  
~ž@ & 'bbZZAb^A~Y'ābA [^ \ @A@^A & ÉANžY^@Yb'āāA \ āžZāA^@A~žY'YāA^YŸYā'āāA & \ ābAYžA^aAa'@žāžbY@ZYābA  
& Ybž@ YāÉAŁāāZžY^@Yb' | Žāā'āābāA & \ ābAYžA^@A'āž^@ā \ āžAYāZAUŌAY~@^ | žžĒAŌ' | ŽANā'āb & YāAb@žžāY@žā  
ā^AbA~ž@ & 'bbZZA'āA@žā' ZŽāYžAāYāāÉA Qž'āAā'āāAY@žā~@^ā'Y' bžZā'āA@žā' ZŽāYžAāYāāA { 'āžA { āÉA T b@žžbAYāZA  
b@Yaa'Yāā'āāāA^AYā [Aā^@bAY@žā~@^ā'Y' bžZā'āAāb \ ZŽābā'@A^A & āĒ

QY'āāDAb \ & YbYŸæāDAbY~žā^aAYā [Aē'āZDAYāZā^bāž@AZž | 'YžāāžžYŸāā^āA & '@@^@āAYāZAZ^@ābAbāYbA { 'āāA  
ZY & YāžAYā [A~Y'ābžZā^@A { ^žžāAā \ @aYŸžAY@žā^bA~ž@ & 'bbžžĒA^Y & ~ž@'āāA { 'bāA^@A@ž { 'āāA^aAžāžYb@'YŸāA  
a' } b \ @žā'āA~@^ā'Y' bžžĒA^PāžAUā' | Ž'ā' b [A@žāž@ | ŽāAbāžA@'āābAb^A^ ZāžA { āYbA'āA^āYāžcA^@A bāAY \ 'āāāAYāZA  
^YŸ \ ~YābāĒPāžAUā' | Ž'ā' b [A@žāž@ | ŽāAbāžA@'āābAb^A@ž\* \ 'žāAb \ ZŽābāAb^A@ž^A | ŽābāžAZ'ā~āY [A^aA  
^āāžāā' | ŽA & Ybž@ YāAā \ YāYāA^āAYAZ^@DA { 'āž^ { DA@žā' ZŽāYžA@^A & A { YāāDAžbYÉBÉA Šžā' ZŽābāāā \ āZā^bA  
YbYŸāPūāAb^A { Yāāā'āYā [A { Y [AbāYbAZY & YāžābāžA { Yāāābā@^ \ āāA & \ ābāāY@ž' | ŽZā^AY^ābžžAb^AbāžA  
{ YāāāĒA ) SAR R?NC MP N?A I GLE R?NC K?W LMR @C SQCB ML ?LW QSPD?AC GL PMMK QĪ Š^ & AZY & YāžA  
Zžž@ & 'āžZAY [AbāžAUā' | Ž'ā' b [Aā^bAb^AYžA@^A & Aā^@ & YāA { ŽY@AYāZAbžY@A { 'āāYžAYāāžāāžžAb^Abā^āžA  
Yāā'āāžžAb^AbāžA@^A & Ē

7MMK QC?PAF ŁāāžāžžāY@ [DAŠžā' ZŽāYžAŌ'āžAāb \ ZŽābābYaaA & Y [Ažābž@AYA^A^ & AYāZā^Yāž@ | Žā { āYbA'āA  
'āA~āY'āA | Ž { ÉARāā [AŠžā' ZŽāYžAŌ'āžA~@^āžāā'āYāAbYaaA^@AYā~ž@ā^āAZžā'āāYbžZAY [AbāžANžYāA^A



; ?A?LAGCQ & Y[A^Yÿ\@AZ\ @'ááAbáŽA [ŽY@ÉA0aA [^AY@ŽAáZab { 'báAYA | YÿYáÿ [A' áA [^ \ @A@^ ^ & DA [^ \ AY@ŽA Ž} ~ ŽYbŽZAb^A { ŽáY^ & ŽAYaáŽ { A@^ ^ & YbŽÉAbá^ áŽAa\ \ áZAb^AYŽAZ' á@Žá ~ ŽYba \ áAb^A@Žá ŽZáAbááŽŽæ' ááAYA @^ ^ & AYáYááZDA' áA^ @ZZ@Ab^AZ' áá \ YZZAbáŽ & DA & Y[AÿŽYáY@áZZAa^@AYAY \ [^ \ bAYáZááŽáAbá@^ \ ááAbáŽA Tb \ ŽZáAbAN^ áZ \ YbAT [ ábŽ & É

< C?NMLQ Y@ŽAá^bA ~ Ž@ & 'bbŽZÉAUáŽA^@A ~ ^ááŽáá' ^áA^Aa^@ŽY@ & áDAY & & \ á' b' ^áDAŽ} ~ á' á' | ŽáDAZYááŽ^ \ á' á' YáŽ & 'YááDAæá' | ŽáAbáYbAZ^ á^ bA & ŽZbAá ~ ŽY' a' 'Yb' ^ááA^@A { ŽY ~ ^ááA^aYá [Aæ' áZAY@ŽAa^@Y' ZZZá' á' á' Uá | Ž@á' b' [A@Žá ŽZáYŽáÉACE^@AYZZ' b' ^áYáA' áa^@ & Yb' ^áDAáŽZAbáŽACE' @ŽY@ & áYáZá Ú ŽY ~ ^ááS^á' Y [AYbA ább ~ IÉÉá' bŽáÉáY \ ÉZZ \ ÉZZYá^aáb \ ŽZáAbáÉ ~ YáŽáÉY^ & & \ á' b' [ÉábYáZY@ZáÉ' @ŽY@ & áEYáÉ { ŽY ~ ^ááÉ

< GLBMUQ & Y[Aá^bAYŽA \ áZZAb^AŽáBŽ@A^@AŽ} 'bAYAY \ 'áZ' ááAŽ} YŽ ~ bA' áAbáŽAYáŽA^aAYáAŽ & Ž@áŽáY [É

## : LGTCPQGRW 5MJGAW ?LB 5PMACBSPCQ MLA 8CVS?J - ?P?QQKCLR

Tb \ ŽZáAbáA { á^AYŽá' Ž' ŽAbáŽ [AaY | ŽAYŽZáA@ŽY' ~ ŽáAbá^aAáŽ} \ YáAaY@Yáá & ŽáBAY [AaYÿ \ áb [A^@AábYaa & Ž & YŽ@áDAáá^ \ áZa@ZaŽ@Ab^AbáŽAÓ \ & YáAŠŽá^ \ @YŽáA { ŽYá' bŽAYbA ább ~ IÉÉ { ŽY & ŽZ' YÉáY \ ÉZZ \ Éá@Éa' áŽáÉÉÉÉÉÉÉÉÉÉ } \ YáÉÓY@Yáá & ŽáBES^á' Y [É ~ ZaA a^@AYAZZbY' áZZAŽ} ~ áYáYb' ^áA^aAbáŽA ~ ^á' Y [AYáZa ~ ^AYZZ \ @ŽáAb^Aa^áá^ { Aa^@A@Žá^á \ b' ^áAb^AbáŽA & YbbŽ@É

Tb \ ŽZáAbáA { á^AYŽá' Ž' ŽAbáŽ [AaY | ŽAYŽZáA@ŽY' ~ ŽáAbá^aAáŽ} \ YáAaY@Yáá & ŽáBAY [A^báŽ@Aáb \ ŽZáAbááá^ \ áZa & YæŽAYa@Ž ~ ^@bA { 'báA^ááANy@^ááAS^á' YŽANŽ ~ Y@b & ŽáBÉATZ } \ YáAaY@Yáá & ŽáBAY [AYaáb \ ŽZáAbá' á' á' Y^áá' ŽZáZYA | ^áYb' ^áA^aAbáŽATb \ ŽZáAbAN^ áZAYáZá' ááZŽá' áZZAY [AbáŽA0ábŽ@ ~ Ž@á^áYáAÚ' ^áŽáYŽAS^á' Y [AYbA ább ~ IÉÉá' bŽáÉáY \ ÉZZ \ ÉZZYá^aáb \ ŽZáAbáÉ ~ YáŽáÉY^ & & \ á' b' [ÉábYáZY@ZáÉ' ábŽ@ ~ Ž@á^áYáE | ^áŽáYŽÉ ~ ^á' Y [AÉ

## 8KMIGLE 5MJGAW

Ó^ááANy@^ááAUá' | Ž@á' b' [A' áAY^ & & 'bbŽZAb^A ~ @^ | 'Z' ááAYaáŽYábá [DAY^ & a^@bYÿáŽDAYáZa ~ @^ \ Yb' | ŽA Žá | ' @^ á & ŽáBaa^@AbáŽAb \ ŽZáAbáDAaYÿ \ áb [DAYáZáAbYaaDAY^á@b@Yÿb^@áDA | ŽáZ^@áDAYáZa | ' á' b^@áA^aAbá' á' á' Yÿ & ~ \ áÉAáPáŽ@Žá^@ŽDAá & ^æ' ááA' áa ~ @^ á' Y' bŽZa' áAYááAY \ 'áZ' áááH^áA \ á' | Ž@á' b' [A ~ @Ž & 'áZáÉAbáŽ@ŽAY@ŽAá^A ŽZá' ááYbŽZaá & ^æ' ááAY@ŽYáA' áAYá [A \ á' | Ž@á' b' [A ~ Ž@YbŽZAY \ 'áZ' áááÉAOYáAY \ 'áZ' áááYáA^áŽáŽá@YáYŽA ŽZá' ááYbŽZAYáAá & ^æŽÉa@ŽZÉAT & ^æ' ááA { 'bá' áAGÉAaZZbA^aAbáŽA & Y' áAŽá@YáYŽáA^a@Žá' ŽZáYŽáYááAYáZa { 'bá' áADGAb^AGÉAaZZbA^aAbáŽAŽZá' ááYbŽZaá & ^æŽÉa@ŽZáŽá@YáYŽáA^a^báŽ@A \ á' | Ž@á' b' [AY \ 'áZ' ááA' áa ~ @^ á' Y' bŽZÉ

Ł Yÿ^@Z' ááAb^AbáŽAŁ & Ž@ YÿáAÓ \ ááAŁ áá^Y' b' ^áDAŽ | Ž@ [A [ŽY@A' áAbáŽAUá' bŽZATbYbŽáA^ | Ž@AÉ \ ÉDÉÉÉA ~ Ž^ ~ áZAZ' ŽAa@^ & Ab^YÿYÿ^ÉYÿ \ áZZAZ' áZYáZDA & Yæ' ááA' bAbáŽáŽYZ' ááAYÿ \ áZá^a ~ @Ž | ŽáYáYáZáZáYbáÉA Ł á^báŽ@AGÉÉÉÉÉA ~ Ž^ ~ áZAZ' ŽAa@^ & AŽ} ~ ^á \ @Žb^AáŽY^ áZáYáZáá & ^æŽÉ

ÞáŽAUá' | Ž@á' b' [A' áAá' ááá [AY^ & & 'bbŽZAb^Aá \ ~ @^@' ááAYááAb \ ŽZáAbáA { á^A { 'áAb^AAb^ ~ A \ á' áAb^YÿYÿ^ÉA CE^@' áa^@ & Yb' ^áA^áA@Žá^ \ @YŽáAá^Ab^A ább ~ IÉÉá' bŽáÉáY \ ÉZZ \ É { ŽááŽááÉ

ĀŠOÚÓTONĀŁ \ á \ ábAÉÉDÉDÉÉFB



# 8MJGAGR?RGML

T^à'ÿ'bYb'^âA'âAbâžA@Žã'ZZãÿŽâYââãA'ãA~@^â'ÿ'bžZAã^AYãAb^A~@^bžÿbA@Žã'ZZãbãAa@^&A\â { žãÿ^&žA|'ã'bãA  
YâZA~^ãã'ÿãŽAâY@Yãã&žãbÉARãâ[A@Žã'ZZãÿŽAâYââA^@áYá']Yb'^ããA&Y[Aã^â'ÿ'bA'âAbâž'@A@Žã'ZZãÿŽAYâZA  
bãžãA^ãâ[A { 'bâAbâžAY~~@^|YâA^aAbâžAâžYZA^aAâYââÉY@žYAY^@Z'âYb^@Éÿ^&&\â'b[Aÿ^^@Z'âYb^@É  
T^à'ÿ'bYb'^âA^âAUâ']žã'ã'b[A~@^~ž@b[A'ãAãb@'ÿbâ[A~@^â'ÿ'bžZA { 'bâ^bAbâžA~@'^@A~ž@&'ãã'^âA^aAbâžAÑ'@žÿb^@A  
^aATb\ZZãbAk.Yb'|b'žãA^@AY~~@^~@'YbžAYÿYZž&'ÿAZžYãA^@AZž~Y@b&žãbAãžYZÉ