

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

.LRPMBSARGML

ĽāYāŌŽā \ 'bAYāZANYbā^ā'ŸAUā | Žā'ā' b [DAŌ^āāNYŌŌ^āāUā | Žā'ā' b [AābŌ' | ŽāAb^Aa^ābŽŌAbāŽAa \ āāŽābAZŽ | Žā^~ & ŽābA^aA
 'bāAāb \ ZZābāA'āAYāAYb & ^ā~āŽŌZA^aYŸŌZAYāZAY^āYŽŌāāÉA pāŽAŌŽā \ 'bA | Yā \ ŽA^aAÉI IÉA IÉI I HGEÉ I ÁAbāŽAYŸŌZA^aA
 ŽYŸāYāZāŽ | ŽŌ [A'āZ' | 'Z\YāDAYā^āāA { 'bāAbāŽAUā | ŽŌā' b ['āA & 'āā' ^āAb^A' āā~'ŌZA'āZ' | 'Z\YāāAb^AZ' } YŽā' āA
 āZY@ā'āāDAāŽYZZŌāā~DAYāZāZŌ | 'YŽAYŸāā \ āAb^A~@^ & ^bŽAbāŽAā@^ { bāAYāZAZŽ | Žā^~ & ŽābA^aAbāŽA { ā^āŽā~Žā^āÉA
 pā'āā'āAYāā^AYŌb'Ÿ\āYbŽZA'āAbāŽAUā | ŽŌā' b ['āAY^ŌZA | Yā \ ŽāAbāYbAYŸāāA^@AbāŽAYŌZŸb' ^āA^aAYā'ā^ā\ āAY~@^AYŸāA
 b^AāYā^āY@āā~DAYāā'āYā\ā' | ŽAY^ & & \ ā' b [A { āŽŌZAZ'āāZŌ'āāA~^ābāA^aA | Ž { AYāZāZ' } ~ŽŌ' ŽāYŽAYŌZA | Yā \ ŽZDAYA
 Ÿ^ & & b & ŽābAb^āāYŌ'āāA^ \ @Aā'ābāDAYāZAYāAY~@ŽŸ'Yb' ^āAbāYbA^ \ @A~Žā^āYāYāZAY^āāZŸb' | ŽAYā^YŽāAYŸā
 Ÿ \ 'āZHYA & ^ŌZā \ ābA { ^ŌāZÉAR \ @AY^ & & \ ā' b [A^āZāA'āāZ' } ~ŽŸb'Yb' ^āāA^aAā { A { Žā' | ŽAYāZā'ābZŌYŸbA { 'bāZŸYāA
 ^bāZŌAYāA { ŽAYŌZAYāā'ābZŌY^āāZŸbŽZAYāZAbā \ āAbāŽAYŸb' ^āāA^aA^āZā^aA \ āAāYāYāZāZāZŸbA^āA \ āAY^āāZŸb' | Žā [ÉA
 ŠŽā~ŽŸbAa^@AāZāāDAŌŽā~ŽŸbAa^@A^āZŌāDAŌŽā~ŽŸbAa^@A~@^~ŽŌb [DAŌŽā~ŽŸbAa^@AY \ bā^@' b [DAYāZāā^āZāb [DAY^bāA
 { 'bā'āAYāZā^ \ bā'ZZAbāŽAUā | ŽŌā' b [AY^ & & \ ā' b [AYŌZAbāŽA^ \ āZŸb' ^āāA^@A^ \ @AbYāZŸŌZā^āY^āZ \ ŸbÉAŌāA
 ^ŌZZŌAa^@A^ \ @AY^ & & \ ā' b [Ab^Abā@' | ŽDAYāā & Ž & YZŌāA \ ābAYZAYŸb' | Žā'āAY^ābŌ'Y \ b'āāAb^AYāZā | @^ā & ŽābA { āŽŌZA
 ~Ž^~āŽAāZŌAYāZāā \ ābYāZŌZāāYāZŌZAYāZāZāZŌZAYāZAY~@ŽŸ'YbZZÉU Žā & \ ābAYā^A^āZā^ \ @āZ' | ŽāAYāZā
 ŽYŸā^bāZŌAYŸŸ^ \ ābYŸāZā^@A^ \ @AYŸb' ^āāAYāYA~Y@bA^aA^ \ @AY^ & & \ ā' b [Aā'āZÉ

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

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

Tb \ ZZābāA Žā^āā'āāA'āA Ō^āāA NYŌŌ^āāUā | ŽŌā' b [A Yāā \ & ŽAYāA ^Yā'āYb' ^āA b^A YŽāY | ŽA'āA YA & YāāZŌA
 Ÿ^ & ~Yb'ŸāZA { 'bāA bāZA Uā | ŽŌā' b ['āA a \ āYb' ^āA YāA YāA ŽZ \ ŸYb' ^āAYā 'āāb' b \ ^āÉA pāZA ~ \ @~^āZA ^aA bāZA
 Tb \ ZZābA N^ZZA ^aA N^āZ \ ŸbDA āZŌŽ'āA @ŽāZŌŽZA b^A YāA bāZA Tb \ ZZābA N^ZZDA 'āA b^A ŽābYŸā'āāA bāZA
 Ž} ~ŽŸb'Yb' ^āāA@ZāY@Z'āāAāb \ ZZābā'AYŽāY | ^ŌDAYāZAb^AZ' } ~YāZā \ ~^āAbāŽA@'āābAYāZā@Žā~^āā'Y'ā' b ŽāA
 ^aAāb \ ZZābāÉA pāZāZāā \ 'ZZā'āZāAY@Zā^ābAYŸ' b^YŌ [AāZā'āāYb' ^āAY \ bāāY | ŽDAYābāZŌ@A~@' & YŌ [A~ \ @~^āZDA
 bāZA { ŽāAYŌZā ^aA āb \ ZZābāAYāZā bāZā Žāb'ŌZAŌ^āāA NYŌŌ^āāY^ & & \ ā' b [ÉA pāZ [AāY | ŽAYZāA^@ & \ āYbŽZA
 { 'bāA bāZA ^YāZŸb' | Žā ^aA Z'ŌZŸb'āāA YāZāYāāZā'āāA bāZā Žāa^@bāA ^aA Ō^āāA NYŌŌ^āāA āb \ ZZābāA b^ { YŌZAYā
 ā \ ŸŸZāāa \ ā \ ā' | ŽŌā' b [Aā'āZÉ

pāZA Uā | ŽŌā' b [A'āAZZŸ'ŸYbŽZA'ā^āA [Ab^AāZŸŌ'ā'āāAYāZAbāŽAYZ | YāYŽ & ŽābA^Aaæā^ { āŽZāZŌAY \ bAYāā^A
 b^AbāŽA { ā^āZAZŽ | Žā^~ & ŽābA^aA~ŽŌā'āāA { 'bā'āAbāŽANYbā^ā'ŸAYāZāŌŽā \ 'bAbŸZ' b' ^āāÉA pāZA Uā | ŽŌā' b [A

^aAāb \ ZZā ā°B ā^b^ { ^

fi 1?AI MD 7CQNCAR DMP 5PMNCPRW

YÉA OááYá'ááA'áAbáŽA\áY\ba^@']ZZAžab@ [A'áb^DA\áŽA^aDA^@A^YŸ\~YaŸ [A^aA
Uá | Žā'ā' b [A~@Ž & āžāē
YÉA OááYá'ááA'áAbáŽAYbbŽ&~bŽZA^@AYŸb\YáAbáŽabA^aDA&'á\áŽA^aDAZY&YáŽAb^DA^@A
ZZāb@ \Yb'^áA^aA'áāb'b\^áYáDAá@^ \~DA^@A~@ |YbŽA~@^~Ž@b [DA'áYá\Z'ááAá'Y@Y@ [A
&YbŽ@YáāDAŸ^&~\bŽ@āDA^@AY^&~\bŽ@']ZZA'áa^@&Yb'^áē
YÉA OááYá'ááA'áAY@ā^áA^@AbáŽA'@Žā~^áá'YáZA\áŽA^aAa'@ŽÉ
ZÉA S^āāžāā'ááA~@^~Ž@b [AbáYbA'áA^áA [^\^@A^ {áDAā\YáAYāA^@^&AæŽ [āA^@A
Uá | Žā'ā' b [A'ZZāb'a'YŸb'^áē

ži 1?AI MD 7CQNCAR DMP &SRFMPGRW

YÉA ÓābŽ@aŽ@'ááA'ábŽāb'^áYāá [A { 'bāAYá [Aā^@ & YáAa\áYb'^áA^aAYAUá | Žā'ā' b [A
ā~^áā^@ZZAYŸb' | b [DA^áA^@A^aaAYŸ & ~\āē
YÉA Ú'^áYb'ááA~\Yá'áāŽZA~^á'Y'žāAYáZÉ^@A@ \ážāAá^ | Žā'ááA@Žā'ZZāYŸZāAYāāDA
āb\ZZābA^@áYá']Yb'^áāDA^@AbáŽAUá | Žā'ā' b [É
YÉA OááYá'ááA'áA'āZáYáAY&Yá'ááē
ZÉA ŒY'á'ááAb^AY^&~ā [A { 'bāAZ'@ŽYb'^áāA^aAUá | Žā'ā' b [AŽ&~ā^ [ŽžāAYŸb'ááA'áAbáŽA
~Ž@a^@ & YáYŸA^aAbáŽ'@AZ\ b'ŽāÉAá'áá'áYá\ZZāDAY\ bA'āA^áAá' & 'bZZAb^DAÓNUSŃA
~Ž@ā^áāžāDAŠžā'ZZāYŸŽA'@ZāAbYaaDAYāZ@NUAŃ'á'ááAbYaaÉ
ŽÉA OááYá'ááA'áAYŸbāA^@AZZZāAbáYbA | 'áYbŽAž' } 'āb'ááAažž@YáDAābYbžDAŸ^\āb [DA^@A
& \áY~YáAaY { āA^@A^@Z'áYáYžāē
aÉA Šžā\á'ááAb^Aāā^ { A^@Aā \@@žāZZ@AUá | Žā'ā' b [A'ZZāb'a'YŸb'^áA\~^áA@ž* \žābY [A
Uá | Žā'ā' b [AŽ&~ā^ [ŽžāAYŸb'ááA'áAbáŽA~Ž@a^@ & YáYŸA^aAbáŽ'@AZ\ b'Žāē
áÉA ŒY'á'ááAb^AY~žY@AYžā^@žAbážANžYáA^aTb\ZZābāA^@AZžā'áāžžÉ
āÉA ŒY'á'ááAb^AY^~žYbžA { 'bāAYá [ATb\ZZābAN^áZ\YbAŁZ & 'á'ābYb^@EM^Y@ZAY [A
á^bAYž'ááAa^@bāY^ & 'ááAYāZA^ážābA { 'bāA'áa^@ & Yb'^áē
ÉA ŒY'á'ááAb^AY^&~ā [A { 'bāAZ'áY'~á'áY@ [AYŸb'^áāA' & ~^ážžA'áAYAb' & žā [A & YáāžžÉ
āÉA Ú'^áYb'ááAYA~@'ābžZA~^á'Y [A'āā\ZZAY [AŁYŸZž & 'YáŁaaY'@āi

ži) 6QFMLCQRW

YÉA OááYá'ááA'áAYá [Aa^@ & A^aAZ'āā^ážāb [DA'áYá\Z'ááAYŸYZž & 'YAZ'āā^ážāb [ÉA
ĀTžžAŁYŸZž & 'YĀŌ^ážāb [AS^á'Y [A
ābb~IÉā' bžāÉāY\ÉžZ\ÉžžYá^āb\ZZābāÉ~YážāÉY^& & \á' b [EA
ābYáZY@ZāÉYŸYZž & 'Yéā^ážāb [ÉAB
YÉA Œ\@ā'āā'ááAaYāžA'ZZāb'a'YŸb'^áAb^AbážAUá | Žā'ā' b [Aæā^ { 'ááá [É
P'ā@ž~@žāžāb'ááA'áa^@ & Yb'^áAYŸ^\bA^ážāžāA^@A^bāžāA { ážāA~@^ | Z'ááA
'áa^@ & Yb'^áAb^AYAUá | Žā'ā' b [A^aa'Y'YáAYŸb'ááA'áAbáŽA~Ž@a^@ & YáYŸA^aAá'áēāžžA
Z\ b'žāē
YÉA OááYá'ááA'áAa^@áž@ [DAYābž'Yb'^áDA^@AbážA\áY\ba^@']ZZA\áŽA^aAUá | Žā'ā' b [A
@žY^@ZāDAZ^Y\ & žābāDA^@A'áāb@\ & žābāA^aA'ZZāb'a'YŸb'^áē
ZÉA P'ā\á'ááA'áYáY'AYāā'ābYáYžžAŸZBāā^\^áAa@Y\ZAYáZÉ^@AYŸ\ážÉ

pāžAYŸ^ | ŽAž'Y & ~žāAY@žA'āā\āb'Yb' | žA@Ybāž@AbáYáAž'áY\āb' | žÉAŌāAbážAž | žābAbáYbAbáž@žAY@'ážāA
ā^&žAY&Y'á' b [DA'áYá'áā'ābžāY [A^@AžžZA^@AYáY@'a'YŸb'^áA'áAbá'āAābYbž & žābDAā\YáAZž'á' b'^áDA
'ābž@~@žYb'^áA^@AYáY@'a'YŸb'^áAāāYāAYžžY'ZZAY [AbážANžYāA^aTb\ZZābāÉ

Tb\ZZābāAāā^\áZAY^āā\ābAbážAUážž@á@YZ\YbžžÉŌ@YZ\YbžAM\āāžb'āāDAbážAN^& & \á' b [ATbYáZY@ZāA
PYá\YāDAbážAŠžā'ZZāYŸŽA'@žAā^\á'ááAY^āb@YŸbDAbážAŌ& & žā'á'áAYáZATb\Z [AŁY^AYZALá@žž & žābāDA
YáZAbáž@A~\Yá'áāžžAUá | Žā'ā' b [A~^á'Y'žāAa^@AYA & ^@žAY^ & ~āžžA'ābA^aAž' } ~žYb'^áāAYāZA
@žā\áYb'^áāē

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

Ō & 'bYb' 'āāāāAYb' | 'b'ZāA^@AYY'ZāāAY@ZAYāā'āāZZA' aAbāZā~@^ā'Yb' 'āAa@^&A~Y@b'Y'~Yb' 'āA'āA
Y'ZbY'āAYb' | 'b'ZāDAZ | ZābāDA^@AAY'ā' b'ZāAaYaY'ZāZāZbZ' & 'āZZAb^AYZā' ābāZāY'Zābā' ābZ'ZābA^aA
bāZāāb\ZZābAYāZē^@AbāZāUā' | Zāā'b [ÉAŌ & 'bYb' 'āāāāAYb' | 'b'ZāAYāZē^@AYY'Zāā&Y [A
'āYā\ZZDAY\ bAY@ZāA^bāā' & 'bZZAb^DAbāZāA^āā^ { 'āāIAYāa' } ZZA~Z' ^Z^A^ā'āZā'āYā' b [Aa^@āāZ | YZAYāA
YāA^aa YZ@A^&Z & YZ@A^aAYā [AUā' | Zāā'b [A^@āYā']Yb' 'āāDA^@AYāYA & Z & YZ@A^aAYā [A
Uā' | Zāā'b [AY^& & 'bbZZāDAY^Y@ZāDA^@AY^ \āY'āDA^@AYāYA~Y@b'Y'~Yābā'āYā [A'ābZ'Y^āāZā'YbZā
Y'Yb' | b [Iā'āZā'āY'ā' b [Ab^A@Z'Y' | ZāA^&Y'ābY'āYā [AY { Y@Za@^&AbāZāUā' | Zāā'b [Iā~@^ā'Yb' 'āA
a@^&AYbbZāZYāYbāā^Y'YāZ | ZābāI@Zāb@'YbZZāZāb@YāYZā'āb^A | Y@' \ā'āUā' | Zāā'b [AY' 'āZ'āāIā
^@A@Zāb@'Yb' 'āAa@^&AYāāA^@ & āA^aY'ābY'YbA { 'bāAYZ'@Y'ā~Z'ā'āāBÉ

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N^& & \ā'b [A~@^Y'Yb' 'āA' āAYAa^@ & Yāā^b'Y'Zāb^AbāZāAb \ZZābAbāYbāāÉāZāYāāZāāYāZZā'āA
Y'ZāY | ^@AbāYbA' āA\āY'Y'Z~bY'YāZā' āAbāZāZāZ'@YāAYY & ~\āY^& & \ā'b [DAZ' bāZ@A^āA^@A^aa
Y'Y & ~\āAYāZAbāYbA'āY'āb'ā \ZZA^@A^bāZ@A'āY~@^~@'YbZāY'ZāY | ^@Aa^āā { āDA & ^@ZāāZ | 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' 'āA@ZāZāZ'Zāā\ā~Zāā' 'āDA\ā~Zāā' 'āDAYāZē^@A^Z'~\āā' 'āAa@^&AŌ^āāA
NY@^āāUā' | Zāā'b [ÉAN^& & \ā'b [A~@^Y'Yb' 'āA'āA^@AYaA' } ZZA~Z' ^Z^A^ab' & ZābāYbA'āA
ZZbZ@ & 'āZZAY [AbāZāTb \ZZābAN^āZ\YbAŁZ & 'ā'āb@Yb^@EM^Y@ZÉA^aa'Y'Yāā^b'Y'Zā^aA
Y^& & \ā'b [A~@^Y'Yb' 'āA & Y [AYZā~@^ | ZZZAb^AbāZāAb \ZZāb'āA~Y@ZābāBÉā \Y@Z'YāāBā' aAbāZā
āb\ZZābA'āYAZZ~ZāZZābÉ

, I 7CQGBCCLAC - ?JJ 7C?QQGELKCLR

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

- I 7CQGBCCLAC - ?JJ 8SQNCLQGML

ŁA@Zā~^āā'YāZā' | 'āāZā | @^ā & Zābā' āAbāZāZā'Zā'ZāY'ZāāYāāāZ* \ 'ZāAYāā & Z & YZ'āA^AbāZā
Y^& & \ā'b [Ab^A@Zā~Z'YbA^bāZ'@A@Zā'Zābā^A@'āābAb^AāYāZb [DAZ'Y' \ @'b [DAYāZa@Z'Yā^āY'Zā* \ 'ZbÉA
T'Z' \ā'āZ'ā'ā~\~b' 'āA^aDA^@AY'āb'ā \ZZAZ'āZāY@Za^@DAbāZāYāāY^& & \ā'b [AYYāāZ'YZYAb^A
@Z & ^ | YāAa^&AbāYbAY^& & \ā'b [ÉAbā'āAYb' 'āAYYāāāA^@AāZ~Y@Yb' 'āA^aAbāZāAb \ZZābAbA^&AbāZā
@Z & ^ | YāZāY'ZāāYāāAa^@AYa~Z' ^Z^A^ab' & ZDAYabZ@ { 'ā'YābāZāAb \ZZābā'āZā'ā'YāZāb^@Zb \ @āÉA
N^āZ' b' 'āāAa^@A@Zb \ @ā'āāA & Y [AYZā~Z'Y'ā'Z'ZÉACE'āYāY'Yā~ZāYab'ZāA { 'āāY~ā [ÉATb \ZZābāA
{ 'ā^AY@Zāā\ā~ZāZZāA@^&AbāZā@Zā'ZāY'ZāYāYāāāā'āZā | 'ā'bYb' 'āA~@' | 'āZāZā'āYā [A
Uā' | Zāā'b [Aā^ \ā'āāZ \ @'āāAbāZā~Z' ^Z^A^abāZ'@Aā \ā~Zāā' 'āÉA Ū @'bbZāā^b'ā'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'YbZZAYāZÉ^@AāZ' \ā'ā | 'āYb' 'āāA^aAbāZāZā' & āA^aAbāZāā^ \ā'āāY'āb@Y'YbA & Y [A@Zā'ābA'āA
bāZāZā' & 'āYb' 'āA^aAbāZāā^ \ā'āāY'āb@Y'YbAYāZāZā' & Z'Z'YbZāZā' & ^ | YāA^aAbāZāAb \ZZābA
a@^&AbāZāZā'ZāY'ZāāYāāDA'āYāY'Yā~ZāYāb'ZāDAYāZāA^āāA^a | 'ā'bYb' 'āA~@' | 'āZāZā'āYā [A
Uā' | Zāā'b [Aā^ \ā'āāÉA Ū @'bbZāā^b'ā'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' 'āA' āAYAa^@ & Yāā^b'Y'Zāb^AbāZāAb \ZZābAbāYbābāZāY'Yb' | b [A'āA' \Zāb' 'āA'āA
\āY'Y'Z~bY'YāZAYāZAbāYbDA'āY'āb'ā \ZZA^@A^a^bāZ@A'āY~@^~@'YbZāY'ZāY | ^@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@^āāUā' | Zāā'b [ÉAUā' | Zāā'b [A~@^Y'Yb' 'āA'āA^@AYaA~Z'Y'ā'Yā~Z' ^Z^A^ab' & ZYāZāY'Yā'ā'Yā\ZZā
ā\YāA@Zāb@'Yb' 'āāAYāZāZā'YāA^aAbāZā~^~@b'ā'b [Ab^A~Y@b'Y'~YbZā'āZ' b@YEY \ @@'Y\āY@AY'Yb' | 'b'ZāA
^@A^Z | ZābāDAbA~Z'@a^@ & A'āAbāZāāY & ZāA^aAbāZāUā' | Zāā'b [DAb^AāZ@ | ZAYāYāA^aa YZ'@A^aAYāb \ZZābA
^@āYā']Yb' 'āDA^@Ab^A@Zā'Zā'āUā' | Zāā'b [Aā^ \ā'āāÉAŁZZ' b' 'āYāā [DAāb \ZZābāA { 'ā^āAY | ZāY'Zāā
~āY'ZāA^āUā' | Zāā'b [A~@^Y'Yb' 'āAa^@AYaA~Z' ^Z^A^aA & ^@ZābāYāÉGAY'āāZ'Y' b']Zā { ZZāāA { 'āāY'Zā
ā' & 'bZZā'āAbāZāA~b' 'āāAbāZā [A & Y [AYZā~@^ | ZāA^@A^ \ā'āāA^@AbāZāA^āā { 'āāA [ZY@ÉAT~Z'Y'ā'Y'Yā [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@~Y@ZābĀāBÉā \ Y@Z'YāĀāBA'aAbāZāāb\ZZābā'āAYAZZ~ŽāZābÉ

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ŇŽāZ@ZZAT \ ā~Žāā'^āA'āAa^@AYAā~ŽY'a'Yā~Z@'^ZA^aAb' & ŽAYāZA'āAYAa^@ & YāAā^b'YŽAb^AbāZā
āb\ZZābAbāYbAbāZAYyb | 'b [A'āA* \ Žāb'^āA'āA \ āYŸYŽ~bYŸāZAYāZA | Ž@ [AāZ@'^ \ āÉAT \ ā~Žāā'^āA
{ 'āā@Z & Y'āAZZāZ@ZZA \ āiZāāZ'āY'~ā'āY@ [AYyb'^āāAYāā'āāZZAY@Zā^bAY^&~ābZZAYāZÉ^@A
\āiZāāY^āb'ā\ZZA'āY~@^~@'YbZAYŽāY | '^@Aa^āā { āÉAŁZZ'b'^āYāA | '^āYb'^āāA^AbāZāATb\ZZābA
N^ZZA { 'āā & ^ābAā'āēZā [A@Zā \ ābA'āAā \ ā~Žāā'^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 | ŽAYŽāā
~āYŸZā^āNŽāZ@ZZAT \ ā~Žāā'^āAa^@AYA~Z@'^ZA^aA & ^@ZAbāYāÉGAŸ^āāZŸ \ b' | ŽA { ŽZāā { 'āā
ā^bAYŽA~Z@ & 'bbZZAb^A@Zā'ZZā'āMŽ@āZbAŌYāāA^@AYā [A^aaAYY & ~ \ āA~@^~Z@b'ZāAYZ & 'ā'ābZ@ZZA
Y [AbāZARaa'YŽA^aŠZā'ZZāYŽAŌ'aŽAa^@AbāZāAa^āā { 'āā [ŽY@EAŠ'ā'āāŌ \ ā'^@āAYāZATZā'^@āA
{ Yāb'āāAb^Aā' | ŽA^āAYY & ~ \ āA { 'āāYŽ@Z* \ '@ZZAb^A & ŽZbA { 'bāAbāZāN'@ZŸb^@A^aAŠZā'ZZāYŽAŌ'aŽA
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
YŽA~@^ | 'ZZZAb^Aā'āēāZ@~Y@ZābĀāBÉā \ Y@Z'YāĀāBA'aAbāZāāb\ZZābā'āAYAZZāā'

ĀĒĒBĀY\ ā'āžāāZY[āĒĀĀYāžāā^āāž@'\^āā&'āŸ^āz\ŸbDAbāžAUā'|ž@ā'b[A@žāž@|žāAbāžA@'áābA
b^AYŸbA^āA@ž~^@bāāā^A&Ybbž@A{āžāAbāž[AŸ@žā\Ÿ&'bbžžĒAĀāžAUā'|ž@ā'b[A{āā'ā|žāb'áYbžA
YāāA@ž~^@bāĒ

ŌāĀŸYāžāA{āž@žAbāž@žA&Y[AŸžĀYA{bāžāāAb^AYāAYāāžāžZA|^āYb^āDA^@A'āĀŸYāžāA{āž@žĀYA
āb\žžābA{ā^AYžā'ž|žāāāĒāYāYāYžžāAbāž@žŸ'~žābA^aAYā^bāž@Aāb\žžāb'āā&'āŸ^āz\ŸbA
@ž^* \žābāAbāYbAbāžAUā'|ž@ā'b[A~\@ā\žAbāžĀŸYāžāž|žāAbā^ \ áāāĒāžA'āA\ā{āā'āāAb^Aa\@bāž@A

(I &BKGLGQRP?RGTc - C?PGL E

Ł áAYZ& 'á'áb@Yb' | ŽAáŽY@ 'ááA'áAYAa^@ & YáAáŽY@ 'ááA'Y^áZ\ŸbŽZAY [A^áŽAĀ^@Ab { ^BATb\ZZába

ÉÉÁ pāŽĀ^@áYá']Yb'^á'āAYZ| 'ā^@A'āA'ā | b'ZZAb^AYbbŽāZAbāŽĀāŽY@'āáÉ

ĐÉÁ pāŽĀ^@áYá']Yb'^á'āA~@Žā'ZZābAYáZĀ} ŽŸ\ b' | ŽĀ^aa'ŸŽ@āA { 'āāA \ ā \ Yāā [A^aa'Ÿ'Yāā [A
@Ž~@ŽāŽābAbāŽĀ^@áYá']Yb'^á'āAYbAbāŽĀāŽY@'āáDAYābā^ \ āāAYZZ' b'^āYāA^aa'ŸŽ@āAYáZĒ^@A
& Ž& ŸŽ@āA^aAbāŽĀ^@áYá']Yb'^á'ā& Y[AŸŽĀ'ā | b'ZZAb^AbāŽĀāŽY@'āáÉ

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

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

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

flI - C?P6LE +MPK?R

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

áÉÁ Ł äáA~@^ŸŽŽ\|@YáA* \Žáb^ááAY@ŽAā \YáŽŸbAb^AbāŽAá^áYāZZŸ^á^áA^aAbāŽATb \ZZābA
N^āZ \ŸbAŁ.Z& ^á^āb@Yb^@É

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ŌāAbāŽAāŽY@^ááAā^b^a^ŸYb^a^AāŽbŽ@AYāZAYáY^áAYbAbāŽAYŽá^á^áA^aAbāŽAāŽY@^ááDAbāŽA
@Žā~^āZZābA { ^āAYŽAYZ| ^āZZAb^aYbAāÉāŽAāYāAbāŽA@^áábāAā^ābZZAYŽā^ { ÉATb \ZZābāA
{ ^bāAYā [A* \Žáb^a^āAYŸ^ \bAbāŽ^@A@^áábāAY@ŽAāŸ^ \@YáŽŽbAb^AY^ābYŸbAbāŽAŁ āā^ŸYbŽA
NŽYāA^aATb \ZZābāÉ

- YÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^AYŽA^ | ŽāAYāAŽ} ~āYāYb^a^A^aAbāŽAāŽY^āZ \ŸbA
ā [ābŽ&AYāZAYāY@áŽāBÉ
- YÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^Aa@ŽZZ^&Aa@^&AāY@Yāā&Žāb^@A@ŽbYā^Yb^āAY [A
^bāŽ@āA^ā | ^ā | ŽZA^āAbāŽAā^b \Yb^āÉ
- YÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^AbāŽA \āŽA^aAYāAY |Y^a^YŸāŽA^ābŽ@āYāYāZ} bŽ@āYāA
ā \~^@bāāŽ@ | ŸŽā^āAŽŽY^āáA { ^bāAbāŽAYabŽ@&YbāA^aAbāŽA^āY^ZZāBÉ
- ZÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^A^AYāŽŸbAb^AYA&Ž&ŸŽ@A^aAYA Tb \ZZābAN^āZ \ŸbA
M^AY@ZA^@A@ŽYā^āāA^aA^aa^Ÿ^YāA^@A~Ž@ā^aYāY^āāā^ŸbA^a^ābŽ@ŽāBÉ
- ŽÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^AbāŽA~@ŽāŽāŸŽA^aAYāAYZ| ^ā^@A^aA^āÉāŽ@A
Ÿ^ā^ā^āáÉ
- aÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^AYŽA~@ŽāŽābAbā^ \^āā^ \bAbāŽAāŽY@^ááY^ \bAā^bA
Z \@^āAbāŽAZŽā^ŸŽ@Yb^āāA^aAbāŽATb \ZZābAN^āZ \ŸbAŁ.Z& ^á^āb@Yb^@ÉM^AY@ŽÉ
- áÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^Aaēā^ { AYāāA^āa^@&Yb^āA~@ŽāŽābZZAYáY^āābA
ā^&ÉāŽ@AYāZAb^A | Ž { A~Ž@b^āŽābA&YbŽ@YāāAā \~^@b^āāAbāŽAYāŽAYáY^āābA
ā^&ÉāŽ@É
- āÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^A~@ŽāŽābA~Ž@b^āŽābA^āa^@&Yb^āAYāZAbāŽA
^āa^@&Yb^āA^aA { ^bāŽāāŽāAŽ} Ÿā \Z^āAYāY@YŸbŽ@A { ^bāŽāāŽāAb^A
ā \ŸābYāb^YbŽAā^āÉāŽ@AYāZAYāZAb^A@Žā~^āZAb^AbāŽAYāY@áŽāYāY^āābA
ā^&ÉāŽ@ÉA pā^ā^āYā \ZZāA~@^~ā^āáA* \Žáb^a^āAb^AYŽAYāēZZA^a^bāŽ@āA
^ā | ^ā | ŽZA { ^bAbāŽAŽ} ŸŽ~b^āA^aAYZ| ^ā^āÉ
- ÉA pāŽAāb \ZZābA^āAŽāb^bāZZAb^Aa@ŽZZ^&Aa@^&AāY| ^āáA^@@ŽāŽ | YābA~Ž@ā^aYāA
ā^āb^@ [AZ^āŸ \āāŽZA^AY^āā^ZZ@ZZAZ \@^āAbāŽAY^āZ \ŸbA~@^ŸŽāāÉAāpāŽA
Tb \ZZābAN^āZ \ŸbAŁ.Z& ^á^āb@Yb^@A { āāZZbŽ@&^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~ŸYbžā [A^@āā^'ābā [É

Ůāž@žAb { ^A^@A & ^@žĀŸŸāžā'á | ^á | 'ááĀŸ^ & ^āĀŸŸ \ @žāŸžāA^@AbāžāāŸ & žA
āb \ žžābĀāBAYžā~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~ŸYbžā [É

žI < GRLCQQCQ

pāžA@žā~^āžžābā'āA@žā~^āā'ŸāžA^@AY@Ÿāá'ááA^@A { 'bāžāāžāŸ~žŸ@'ááA^@A
ā'āÉāžAŸŸāŸāŸbAbāžāžŸ@'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@AYbAbāžāžŸ@'ááÉĀŮābāžā
ž}Ÿž~b'^āŸāž | žābAbāŸbAYā { 'bāžāā'āA \ āŸŸāžAb^ĀŸbžžāžAbāžāžŸ@'ááDAbāžā { 'bāžāā
& Y [A { @'bžA^@A@žŸ^@ZAYābŸž & žābAYāZāŸ'āŸ \ āāAbāžābŸž & žābA { 'bābāžATb \ žžābA
N^āZ \ ŸbAŁZ & 'á'āb@Ÿb^@AYžā^@žAbāžāŸāŸž \ āžžāžŸ@'ááÉpāžATb \ žžābAN^āZ \ ŸbA
ŁZ & 'á'āb@Ÿb^@A'āAb^ĀŸžā^b'ā'žžābāžāābāŸāA^āžāĀÉBAY \ ā'āžāāZY [ĀŸžā^@žAbāžA
āžŸ@'ááDA^@Abāžā~žžāāā'ābžāž'āāAb^@^ | žžā'āa^@ & Ÿb^@āDA { āžbāž@'āA~žžāā
^@A'āA { @'b'āāÉpāžATb \ žžābAN^āZ \ ŸbAŁZ & 'á'āb@Ÿb^@A & Y [A@žŸā^āŸŸā [Āā' & 'bābāžā
āŸ^~žŸāŸāžAb' & žāžž | ^bžžAb^A { 'bāžāābŸbž & žābāÉ Ů' bāžāāžāŸŸ@žAb [~ŸŸāā [AYāēžžA
b^ĀŸ^ & & žābA^āā [A^āAbāžāž | žābābA~žžb'āžābAb^AbāžāŸŸāŸžāžāā^@AbāžāŸŸāŸŸ@A^@A
bāžā~žžāāÉ

žI .LDMPK ?RGML

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

ŮāZ \ @'ááAbāžāŸ^ \ @žāA^@AbāžāžŸ@'ááAbāžAŸŸbāŸŸŸŸ@A \ bAbāŸbAbāžāžā~^āžžābA
āb \ žžābA'āA@žā~^āā'ŸāžA^@AYā [A^bāž@A | ^āŸb^āāBAbAbāžATb \ žžābAN^āžžDA'ba'Abāžā
@žā~^āāŸŸ'ā'b [A^AbāžATb \ žžābAN^āZ \ ŸbAŁZ & 'á'āb@Ÿb^@EM^Y@ZbA^A & ŸāžŸAY
žžbž@ & 'āŸb^āA^@žā~^āāŸŸ'ā'b [A^@A@žŸŸ^ & & žāžAbāžā'āž'āāāŸāžAYāā'āāA^@A
@žŸŸ^ & & žāžAbāžāž'āŸ'~ā'āŸ@ [AYŸb^āDAYāŸ~@^@~@ŸbžžA^@ā \ Ÿā | ^āŸb^āāÉ

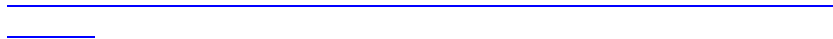
žI & BTGQMPQ

pāžA@žā~^āžžābAYāZAYāb \ žžābA { ā^ĀŸžā'ž | žāāāžāžāŸāŸŸžāAbāžāžŸ'~žābA^@A
bāžA@žā~^āžžāb'āA & 'āŸ^āž \ ŸbA & Y [ĀāŸ | žĀ^āžAYZ | 'ā^@A^@Abāž'@ĀŸ^ā^'āāA~žāžābA
ŸbAbāžāžŸ@'ááÉĀŮābāžāāb \ žžābA { ŸābāAb^ĀāŸ | žĀŸāŸZ | 'ā^@A~@žāžābDAbāžāāb \ žžābA
& \ ābāā^b'ā [AbāžATb \ žžābAN^āZ \ ŸbAŁZ & 'á'āb@Ÿb^@A^@Abā'āAŸŸbA'āA { @'b'āāA^āŸŸbžž@A
bāŸāAb { ^āāÉBAY \ ā'āžāāZY [āŸŸā^@žAbāžāžŸ@'ááÉpāžAYZ | 'ā^@A'āā'ābžāžžAb^ĀŸžA
^aAZ'@žŸbAYāā'ābŸāŸžAb^Abāžāāb \ žžābAYžā^@žDAZ \ @'āāDAYāZAYābžžAbāžāžŸ@'áāŸāžA
bāž@žā^@žāāŸŸāŸŸ'ā | 'bžžAb^ĀŸbžžAbāžāžāb'@žā~^@b'āA^@AbāžāžŸ@'áāAYbA { ā'ŸāA
'āa^@ & Ÿb^āA'āA@žŸž | žžāžž}Ÿā \ žāāžžā'Ÿž@Ÿb^āāBÉpāžāAb \ žžābā'ā | ^ā | žžAY@žā
@žā~^āā'ŸāžA^@A~@žāžāb'āābāž'@A^ { āā^@ & Ÿb^āDAYāā { žž'āā* \ žāb^āāŸāēžžA
ŸāžA~@žāžāb'āā* \ žāb^āāÉpāžāž'@A^@žDAYZ | 'ā^@āŸžā^bA~žž@'bžžAb^āā~žŸæAYbAYā
āžŸ@'áāA^@A~@^ | žžAYāā { žžāb^Abāžāāb \ žžābA { āžāŸAYāb \ žžābA'āŸāēžžAYā
* \ žāb^āāÉŁ.āāā^bžžābŸžāŸŸAYZ | 'ā^@āZ \ @'āābāžāžŸ@'áāA & \ ābAYžAb \ @žāžA | žžA
b^AbāžATb \ žžābAN^āZ \ ŸbAŁZ & 'á'āb@Ÿb^@EM^Y@ZANāŸ^@AYbAbāžāžāZāA^@AbāžāžŸ@'áāÉ
ŁAāb \ žžābāāā \ āžāžāžŸŸbAYāŸZ | 'ā^@A { ā^ĀŸŸāŸŸbžžāZAYbAbāžāžāŸŸāžž \ āžžAZŸbžŸAYāZ
b' & žāA^@AbāžāžŸ@'áāŸŸŸŸ \ āžžāžŸŸŸ [ĀA { 'āāA^bA \ ā \ Ÿāā [ĀŸžA~žž@'bžžAZ \ žAb^Abāžā
āŸāžž \ ā'āāŸŸ^āā'ŸbāA^AYāŸZ | 'ā^@É

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

- I & NNC?JQ

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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 \ āāŽZ
^@AY'āā' ZŽ@ZAZ \ @' 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 ~ŽYāZŽAb^AbāŽANŽYāA^ATb \ ZŽābāÉ

pāŽAĪO^āāNY@^āāAY^ & & \ ā' b [AŽāY^ \ @YāŽāAbāŽAŽ~^@b' āāA^aAY@' & ŽāAY [A@ŽY' ~ŽābāA^aYŽāY | ^@A
Y^āā' ZŽ@ZAZ & 'āY^āZ \ YbAb^AUā' | Ž@ā' b [A^aa' Y' YāāYāZA' aAY ~@^~@' YbŽDA^ \ bā' ZŽāY { AŽāa^YŽ & ŽābA
Y \ bā^@' b' ŽāÉAT^ & Žb' & ŽāDA@ŽY' ~ŽābāA^aAYā' 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@ZābA^Abā' āāY^ & & \ ā' b [AbāYbAYāā
'ābŽ@~Ž@ā^āYā | ^āŽāYŽA^aaŽāāŽāAYāZ^AbāŽ@AYYbāA^a | ^āŽāYŽAY@Z@Ž~^@bZŽAb^AUā' | Ž@ā' b [A^aa' Y' YāāÉA
b^AŽāY^ \ @YāZAbŽ~^@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' & ~^@bYābÉAŁ' bAb' & ŽāDAY^ & & \ ā' b [A
& Ž & YŽ@āA^āAYāZ^A^aaAYY & ~ \ āA & Y [AāŽZAYāā' ābYāYŽÉO^āāNY@^āāAŽāY^ \ @YāZāAYāāAb \ 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' āZ^~^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' * \ @ZAZ
YāAYāAYābŽ@āYb' | ŽAb^AZ' āY' ~ā' āY@ [AāYāYb' ^āāÉACE^@AYZZ' b' ^āYāA' āā^@ & Yb' ^āA@ŽāY@Z' āāAbāŽA@^AZA
TY & Y@' bYāA^ā' Y [DAā^Ab^Aābb~ĪÉā' bZāÉY \ ÉZZ \ ÉZZYā^āāb \ ZŽābāÉ~YāŽāÉY^ & & \ ā' b [ÉābYāZY@ZāÉā^AZÉA
āY & Y@' bYāÉ~^ā' Y [AÉ

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YÉA Óābž' & Aā \ ā~žāā' ^āA & Y[AÝŽA' & ~^āžžIÀÈBAb^Ažāā \ @žābāžAāYāžb [AYāZA
 { ŽāāEÝŽ' āāA^aA & Ž & ÝŽ' āā^aAbāžA Uā' | Ž' ā' b [AY^ & & \ ā' b [A^@A~@žāž' | Yb'^āA^aA
 Uā' | Ž' ā' b [A~@^~ž' b [I^@AĐBA' aAbāžA āb \ ŽžābA~^āžžA YāA^āā^ āāAbāžYbA^aA
 Z'ā' \ ~b'^āA^aDA^@A' ābž' @āž' @žāÝŽA { 'bāDAbāžA ā^@ & YāA^~ž' Yb'^āāA^aAbāžA
 Uā' | Ž' ā' b [É

ÝÉA Ń \ @' āāAbāžA' ābž' & Aā \ ā~žāā' ^āDAYA āb \ ŽžābA āāYāāYžAZžā' žžAYÝžāāAb^A
 bāžA @žā' ZžāÝžA āYāāYāžÉ^ @Ab^AbāžA ÝY & ~ \ āā' āÝā \ Z' āāYāYāāžāBAYāžÉ^ @A
 b^AYāāA^bāž' @AUā' | Ž' ā' b [AYÝb' | 'b'žāA^@A~@' | 'āžāžāA^@A { ā'ÝāAbāžA āb \ ŽžābA
 & 'āābA^bāž' @ { 'āžAYžAZā' ā'ÝāžDAYāAbāžANžYāA^aATb \ ŽžābāA^@AYAZžā' āāžžA
 & Y [AZžbž' @ & 'āžAb^AYžAY~@^~@' YbžÉ

ÝÉA ŁAāb \ ŽžābA { 'āāYžA ā^b' a'žžA' āA { @'b' āāA^aAbā' āAYÝb'^āDAYāZAbāžA @žYā' āāA^@A
 bāžA' ābž' @' & Aā \ ā~žāā' ^āÉ

ZÉA PāžA āb \ ŽžābA & Y [A { 'bā' āAb { ^AÁĐBAY \ ā' āžžāAZY [āA^aAbāžA' & ~^ā' b'^āA^aAbāžA
 'ābž' @' & Aā \ ā~žāā' ^āDA~ž' b'^āAbāžANžYāA^aATb \ ŽžābāA^@AZžā' āāžžA ā^@A
 @ž' āābYbž' & žābÉA PāžA~ž' b'^āA & \ ābAYžA' āA { @'b' āāDAYāZA & \ ābA' āÝā \ ŽžA
 ā \ ~^@b' āāAZ^Ý \ & žābYb'^āA^@A' āa^@ & Yb'^āAbāYbAbāžA āb \ ŽžābAZ^žāā^bA
 ~^āžDA^@A ā^Aā' āāž' @A~^āžāDAYA ā' āā' ā' ÝYābA@' āāA^aAā \ ÝābYāb' YāāY@ & Ab^AbāžA
 āžYābāA^@A āYāžb [A^aA^bāž' @āA^@Ab^A~@^~ž' @b [ÉA ŁAZžÝ' ā' āāA^āā \ ÝāA~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^žāā^bA @ž~āYÝžAbāžA @žā' \ āY@AY^āz \ ÝbA
 ~@^ÝžāāA { ā' ÝāA { 'āā~@^ÝžžA^āAbāžA ā^@ & YāAāÝāžž \ āžDA \ ~Ab^AYāžA
 bā@^ \ āāAYATb \ ŽžābAN^āz \ ÝbANM^Y@ZA āžY@' āāDA' aA@ž' * \ 'žžÉA Pā' āA' ābž' @' & A

ŌaYAāb \ ZŽāb'āA^ \ āZāābAōZā~āā'YāZāA^AYāābāZāYāY@āZāAā'ZŽAYáY'āābAā' & ēāZ@DA^@A' aAYA
āb \ ZŽāb'āAZ' \ āZ@YbZŽA^@AbāZāYāY@āZāAZ@~--ZŽDAbāZāYābZābā^aAbāZā'āZā' @ZŽYbā [A@ZāYbZŽA
b^AbāZā'āY'ZŽābA { 'āAYZāZ' & ^ | ZŽAYāZAZŽāb^ [ZŽAYbAbāZāYā'āYā \ ā'āA^AbāZāYāYāZē

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

Uāb' & YbZāUā' | ZŽā' b [AY \ bā^@' b [AYāZāZā~āā'Yā' b [A' āA & YbbZ@āA^aAb \ ZŽābYāZ \ YbA@Zā'ZŽA { 'bāAbāZā
S@Zā'ZŽābA^aAō^āāNY@^āāUā' | ZŽā' b [ÉAbāZAS@Zā'ZŽābAāYāAZZāZāYbZŽA' & ZŽ'YbZāY \ bā^@' b [AYāZA
@Zā~āā'Yā' b [Aa^@Ab \ ZŽābYā'āZ \ YbDA \ āZŽ@AbāZāZāZ@Yāā \ ~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^@āāāYāāYZāY \ bā^@'] ZŽAb^āZāY@AZŽYāA & YbZ@ÉAN \ @'āā
Y@Z'Yā~Z@'^ZāDA'āYā \ Z'āāā \ & Z@DAbāZāNŽYāA^aATb \ ZŽābāA & Y [AYāZ@AbāZā~@^YZāāAb^A~@^ | ZŽāA^@AYA
b' & Zā [A@Zā'ā \ b' ^āAb^AYāY^ & ~āY'ābA'āZŽē

pāZāābYāZY@ZāA^@AY^āZ \ YbAZZ'Y'ā'āE & Yae'āāYbAYāāZ | ZāāA^AbāZāTb \ ZŽābAN^ZŽA^aAN^āZ \ YbA
~@^YZāāA { 'āāAYZā & YZZā^āAbāZāYā'āA^aA { āZbāZ@A' bā'āA & ^Zāā' ēēZā [AbāYāā^AbāYbAbāZā~āZŽābA
| ^āYbZŽAbāZāTb \ ZŽābAN^ZŽē

ēā [A* \ Zāb' ^āA^aA'ābZ@~@ZbYb' ^āA^@AY~~ā'Y'Yb' ^āA^AbāZāTb \ ZŽābAN^ZŽāāYāāYZāZ@ZŽAb^AbāZāNŽYāA
^aATb \ ZŽābāA^@Aā'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@ZbZāb \ ZŽābAY^āZ \ YbAY^Y@ZāAb^āZ'Y@AYYāZāA
@ZāZ@ZŽAb^AbāZ' & ÉATb \ ZŽābAN^āZ \ YbAM^Y@ZāAYbAō^āāNY@^āāUā' | ZŽā' b [A'āYā \ ZŽAbāZā
Tb \ ZŽābAUA' ^āAōZ'Y@'āāM^Y@ZDAbāZāUA' | ZŽā' b [AōZ'Y@'āāM^Y@ZDAōZ'Y@'āāSYāZāDAYāZAbāZā
Uā' | ZŽā' b [Aē ~Z'YāāM^Y@ZÉAPZ & YZ@āā'~^āAbāZāZāY^Y@Zā'āY [AY~^āb & ZābA^@A
ZāZ'Yb' ^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@Z'Y^ & & ZāZā { āZbāZ@AYāAb \ ZŽābāYāā
| ^āYbZŽAbāZāTb \ ZŽābAN^ZŽDAYāZAb^A@Z'Y^ & & 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 ~Z'YāāM^Y@ZDAYāZAYZ | ā^@āAZ'āY~ā'āY@ [AYYb' ^āāAb^Aāb \ ZŽābāDA { ā'āZāY'Yb'āāA'āAbāZ'@A
^āā'Y'YāY'Y~Y'Y'Zā'āAā \ YāA~ā' b' ^āāDAāāYāāYZāZŽ & ZŽAb^AYYbAYāā~Z'YāYāā'ābYābāAb^A
bāZāNŽYāA^aATb \ ZŽābāDAā^āZā [Aa^@AbāZā~ \ @~āZāA^aA' & ~Y@b'āāAb^AbāZāZāZ'Y@'āāāAbāZā
Y'āā'ZŽāb'Yā' b [A~@^ | ZŽAY [A@Zā \ āYb' ^āāA^ | ZŽā'āāY^āāZāZāYāZā \ ā' | ZŽā' 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 NPMTGQGMLQ MD RF@Q K?LS?J ?PC LMR RM @C PCE?PBCB ?Q ?LA
GPPCTMA?@JC AMLRP?AR @CRUCCL /MFL (?PPMJJ : L@TCPQGRW ?LB GRQ QRSBCLRQI 9FC : L@TCPQGRWA
PCQCPTCQ RFC P@EFR RM AF?LEC ?LW NPMTGQGML MP ?LW PCOS@PCKCLR ?R ?LW RGKCI

8RCN fl% pāŽAā@Ž|YāYŽA&\ābāYŽA~@ŽāžābŽZA'āA { @'b'āāAb^AbāŽAŃ'@ŽYb^@A^aATTŃÉpāŽATTŃA
^aa'YŽA'āā^YbŽZA^āAbāŽAÓY@ZZāŃŃ|ŽāA^aAbāŽAŁZ& 'ā'āb@Yb'^āAM\ 'āz'āāDA'āāŠ^&AŁE I ÉA pāŽA
TTŃA&Y'ā'āāAYZZ@Žāā'āATŽ@ | 'YŽāAa^@ATb\ZZābāA { 'bāAN'āY'ā'ā'ZāDAÉAŃāāANY@@^āā
M^\\āž|Y@ZDAUā | Žāā'b[AŃŃ'āābāDARā'^AFFÈÉ I ÉA pāŽATTŃA~ā^āŽAā\ & YŽ@A'ā
ĀĐÈHBAÉ I I EF Ī H I ÉAŃāAbāŽAŽ|ŽābAbāŽAā@Ž|YāYŽA'āAYāY'āābAbāŽAŃ'@ŽYb^@DAbāŽAā@Ž|Yābāāā\āZA
ā'āŽAbāŽAā@Ž|YāYŽA { 'bāAbāŽANŽYāA^AbāŽAN^āāžāŽA^aŁ @bāAYāZATY'ŽāYŽāA'āā^YbŽZA'āAbāŽAMA Ū 'āā^aAbāŽA
ŃŽYāA^aAbāŽAN^āāžāŽA^aŁ @bāAYāZATY'ŽāYŽāA'āā^YbŽZA'āAbāŽAMA Ū 'āā^aAbāŽA
ŁZ& 'ā'āb@Yb'^āAM\ 'āz'āāA'āāŠ^&AMĒĒĒĒpāŽA&Y'ā'āāYZZ@Žāā'āARāa'YŽA^aAbāŽANŽYāA^a
bāŽAN^āāžāŽA^aŁ @bāAYāZATY'ŽāYŽāDAÉAŃāāANY@@^āāAM^\\āž|Y@ZDAUā | Žāā'b[AŃŃ'āābāDARā'^A
FFÈÉ I ÉA pāŽA~ā^āŽAā\ & YŽ@A^aAbāŽAN^āāžāŽA^aŁ @bāAYāZATY'ŽāYŽāA'āāĐÈHBAÉ I I EFĐÈĒĒ

Łā[Aā@Ž|YāYŽAāāYāāĪĀYBAŃY@ā[A'ZZāb'a [AbāŽAaYbāAYāZāŽ|ŽābāA@ŽāYbŽZA^AbāŽAā@Ž|YāYŽA
ĀYBA'ZZāb'a [AYāāA@ŽāŽ|YābA~Ž@āāāAYāZAbāŽ'@A@Žā~ŽYb' | ŽA^āžāA'āAbāŽAZ'ā~\bŽĪĀYBAŽ}~āY'āAYāā
Žāa^@bāA\āžž@bYæŽāAb^A@Žāā|ŽAbāŽA'āā\ŽA~@'^@Ab^Aa'ā'āāYAA@Ž|YāYŽĪAYāZĀZBA'ZZāb'a [AYā[A
ā~ŽY'ā'YAA'Žā'Žāāā\āābÉAU~^āA@ŽYŽ'~bA^aAYAA@Ž|YāYŽDAbāŽAŃ'@ŽYb^@A^@AbāŽANŽYāAāāYāā
Y'ābYbAbāŽA~Y@b'ŽāAYāZA~@^|'ZZAbāŽ&AbāŽA^~^@b\ā'b [Ab^Aā\Y & 'bāŽ|'ZZāYŽAYāZA'ZZāb'a [A
{ 'bāžāāžāÉA Ū 'bāžāāāābYbŽ & ŽābāA&Y [AYŽAā\Y & 'bbŽZA'āA { @'b'āāA^AYŽAāŽY@ZAY [AbāŽA
Ń'@ŽYb^@A^@AbāŽANŽYāAāāŽ|'ZZāYŽAāāYāāYŽAā\Y & 'bbŽZA { 'bā'āAb { Žāb [E^āžāāĐÈBAZY [ā
a^āā^ { 'āāAbāŽAā\Y & 'āā'^āA^aAbāŽA { @'bbŽāAābYbŽ & ŽābÉ

pāŽAŃ'@ŽYb^@A^@AbāŽANŽYāAāāYāā@Ž|'Ž { AYāāA@ŽāŽ|YābAŽ|'ZZāYŽDAYāZAāāYāāDA'āAY~@^~@YbŽDA
'ābŽ@ | Ž { AbāŽA~Y@b'ŽāAYāZA^bāŽA { 'bāžāāžāÉA pāŽAN'@ŽYb^@AāāYāābāŽāYāā\ābAYāā

: 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@Žáá\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^@ZáBáŽáŸ^á^@YŸbA@'ááBáÉASZ@á^ááA~^áá^@'ááA
 YŸb' | b'ŽáA { 'báAYáŸ^á^áážáZA'áA^báŽ@AY@ŽŸáA^aAYŸ & ~\áA & \ábA^ŸbY'áBáŽAY~@^@-@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^áá [A { 'báAYA | Yá'ZYbZZA0^ááANY@^ááAUá | Ž@á' b [A0ŇAŸY@ZA
 ŁQŇAY\@@ŽábAAbYbZá\ZZáb'á'ŸYb^ááÉ

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^áAYáZÉbáŽáA~^áá^@AYááA
 & \ábA~@^ | 'ZZA^á^ZÉ

GÉÁ Q^A^áŽááá^áZAYŽáŸ^á^áŽ@ŽZDAŽ | ŽáAá \Yb [DAb^AZ@'ááA^@A^ | Ž@'áZ\áážÉAŁáA^ŸYáŽá | ŽábAbáYbA
 ŽáŸ^á^@YážáZA@ \áážáážááAYáAbáŽ & ŽDA^@AbáŽAYZ | Ž@b'áž & ŽábA^aAá \YáAYáŽ | ŽábDA'áA
 \áYŸŸ~bYŸáŽAYáZA { 'ááA^bAYŽA~Ž@ & 'bbZZÉAŁZ | Ž@b'á'ááA^@A~@^ & ^b'ááAYáŸ^á^áAYáA~@' & Y@ [A
 Ybb^YŸb^áA^aAYáAŽ | ŽábAYáZAbáŽA & Y@æŽb'ááA^aAYáŸ^á^áAY [AYŽ | Ž@YážáA & Yá \aYŸb\@Z@áDA
 Z'áb^Ÿ\ b^ááDAŸá \YáDA^@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 - * 574 249.43 4+ * ; * 398
< - * 7 * &1 (4 - 41 <.11 ' * 8 * 7 ; *)

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

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

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

FÉÁ Q^A \áYáAb@^ááŽZáAY & ~á'ááAYáA~Y@bA^aAYŸ & ~\áA & Y@æŽb'ááA~@^áY & áááAYáŸáŽA~Ž@ & 'bbZZA
 YáZáA^áAY & ~á'ááA^@A^báŽ@A~@^ & ^b'á'áAYáŸb' | b'ŽáááAYáá'áŸá \ZZAÁZ@'áá'ááAYáŸbŽábáAÉ

GÉÁ Úáž@ŽáŸ^á^á@^ááŽZáAY & ~á'áá'áAYáá^@ { ŽAY [AáY [AYáZAUá | Ž@á' b [A~^á'Ÿ [DA' bA & \ábAYŽáA' & 'bZZA
 YáAb^Ab' & ŽAYáZA * \Yáb 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^bAYŽáAYáá^ŸYbZZA { 'báA^báž@ { 'ážáŽ' 'áb'ááAYŸ & ~\áA
 Ž | ŽábáA^@A~@^áY & áA { 'bá^bAbáŽA~@^A^@á^@ { ážážAYáZAYáážáAb^AbáŽáŇ@ŽŸb^@A^aAT
 Tb\ZZáBáLŸb' | b'ŽáÉ

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

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

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

(JC?LGLLE ^AbáŽA~\Yá'ŸAY@ŽŸA'áAŽŸYáA^AbáŽA@Žá'ZZáŸŽáAYááá'áAZ^áŽá^áAYAZY'á [AYŸá'áDA'áŸá \Z'ááA
 { ŽžæŽáZáÉAŁAáŸážZ\áŽA^@AZ'á [Ab@YááA@Ž & ^ | YáAYáZAYáŽá'ááA^AbáŽA@Žáb@^ & áA { 'ááAYŽA~^AbZZA^áAŽŸYá
 @Žáb@^ & AZ^@ÉATb\ZZábáA { 'báAYáŸ^á^áŸ@áAYŸ^bAYáŽáá'ážááA^aAYá [AY@ŽŸAY@ŽAYáæZZAb^Aá \Y & 'bAYA { ^@æA
 @Ž* \ŽábA { 'báA~ŽŸ'á'ŸAZŽbY'ááA^AbáŽA'áá \ŽAYáAYŽAb@Žá^ | ŽZA'áAYAb' & Žá [A & YáážÉ

ÚažáYáŽYáááA@AbáŽA&YábžáYáYžAábYaaáAY@ŽááAY@Žáb^&Ab^AYáŽYáA^A&YæŽAž~Y'@āDAbāŽA
Žáb@YáYžÁāBA { 'āāYžáYáāžZAYáZAYá^YæžZá@A@~žZá^aaEāOā'āa & YáZYb^@ [AbāYbAāb \ZZābāA \āžYá^bāž@A
@Žáb@^&AZ \ @āāAbāYAb' & ŽĚAbāŽA \ á \ žā'b [A@žāž@] žābāžā@ \ áābAb^AbYæžZ'āY'~á'AY@ [AYYb'āAYáY'āābAYá [A
āb \ZZābāYbA | ^āYbžāAbā'ā~^ā'Y [Ě

) CKMLQRP?RGML 5MJGAW

ĽāAYāYŸYžZ&YŸY^& \ á' b [DĀŌ^āāNY@@āāUā | žā'b [A'āY^& & 'bbžZAb^AY@žYb'āāYāŽā | 'A^ā & žāb^aA
'á* \ @ [A { á'YāAZ & YŸYžāHŌžā \ 'bDANYbāā'YāžZ \ YŸb'āā'āYāžZŸYāAa^@Ab \ bāA { āž@žāYb'āAYāZ@žYā^ā
Y^&~ž & žābžYŸā^bāž@A'āāžY@ā'āāEĽbāb' & žābā'āā~ \ @ 'bA^aA'á* \ @ [A & Y [A~@^Z \ YžY^āā'Ybā^aA'ZžYāDA
^~'ā'āāDAYāZ~@~^ā'YāāA^@AYŸb'āāEAbāžA \ á \ žā'b [A@žY^āā'] žā'bāA@žā~^āā'Y'ā'b [Ab^A~@^ | 'ZZāžāžYb' | žā
YāYāžāāA^@'ābž@YāY^& & \ á' YŸb'āDā@žžZ'āY'āā'āDAYāZAb^Yb'āYā~ž@ \ Yā'āAYāAbāžā^& & YāYāZ
~@žāž@žZā & žYāāAb^AY' @'āāYāZā@žY^āā'] 'āāZ'āāž'āYžāĚ

RāA^YŸYā'āAbāžāž'~@žāā'āāA^aAZ'āāžābAbā@ \ áā'āž' | Z \ YāA^AY^āžYb' | žAYŸb' | b [A & Y [AbYæžAbāžAa^@ & A^aA
ZZ & ^āāb@Yb'āāEāOāA \ YāYŸYāžābāžA \ žā'b [A & \ ābāžžāAb^Ažāā \ @žAYaY'@AYāZ@žYā^āYŸYāYāYžA
Yžb { žžāAb { ^āžbāA^aA@'āābāEAbāžAa'ābā'āAbāžA@'āābA^AbāžA & ž & Yž@āA^AbāžA \ á \ žā'b [AY^& & \ á' b [Ab^Aa@žžā [A
~ \ @ā \ žābāž@A^YāžYb' | žāA { 'bā \ bA \ ā@žYā^āYāZ^AYāb@ \ Yb'āāA^āā'āZ@YāYžĚAbāžāžY^āZā'āAbāžA@'āābAb^A
Y^& & \ á' YŸbžDAY [A~žYžā \ āAZž & ^āāb@Yb'āāYāZAZ'āāžābDAbāžA~^ā'b'āāAbāYbAbāž [AY^āāY'žāb \ áā [A
žā~ \ ážā^āA' | bYā'āā \ žāA^AbāžāZAY [ĚAbā'āAYŸYāYžāž@ž* \ @žāA@žā~žYbAa^@AbāžA@'āābāAYāZā@žā~^āā'Y'ā'b'žāA^AY^bāA
bāžā'āāb'b \ b'āAYāZAbāžā'āž' | Z \ Yāā'ā | ^ā | žZā'āAbāžAZž & ^āāb@Yb'āāĚ

Ō^ { ž | žDāž' bāž@Aāžb^aA@'āābāA \ āb'ā'žāāž^~Y@ž'] 'āāA^@Abā@žYbžā'āābāžāYāžb [A^aA~ž@ā^āā^@~@^~ž@b [DA
'āYā \ Z'āāA \ ž@Ÿ^ { Z'āāA^aYŸY & ~ \ āAY@žYāIā'ābž@āžžāYžA { 'bāA~@^YžāāžāA^@~@^Yžž \ @žāA^a'āāb \ Yb'āDA
@žāžY@YāDAYZ & 'ā'āb@Yb'āA^@Aāb \ ZZābAYŸb' | b'žāAY \ bā^@'] žžAb^AYžāY^āZ \ YbžZā'āA \ á \ žā'b [AaYŸ'ā'b'žāA^@A^āA
 \ á \ žā'b [A~@^~ž@b [Iā | ^āYb'āāA^aZābYŸY'āāžZAY \ āž'āāā \ @āIā^@A^Yāb@ \ Yb'āāA^AY \ bā^@'] žZAYŸYžāāAb^DA \ āžā
^aA^@Ažā@žāāA^&A \ á \ žā'b [AaYŸ'ā'b'žāEAT \ YāY^āZ \ Ybā'āAY^āb@Y@ [Ab^AbāžA~^ā'Y'žāAYāZ^AYžYb' | žāA^Abāžā
 \ á \ žā'b [AY^& & \ á' b [ĚATb \ ZZābāA { āA~Y@b'Y'~Ybžā'āAZž & ^āāb@Yb'āāAYāZāA' & 'āY@AYŸb' | b [A { á'YāA'ābž@āž@žA
{ 'bāAbāžA@'āābāA^Abāžā@AbāžA^@žž@ [Aa \ áYb'āā'āāA^AbāžA \ á \ žā'b [A^@AY' | 'YŸY^& & \ á' b [AY@žā \ YāžYbAb^A
Z'āY'~ā'āY@ [AYŸb'āAYŸY^@Z'āāAb^AbāžA \ á \ žā'b [AAb \ ZZābAY^āZ \ YbA~@^Yžž \ @žāAYāA { žāāYāāžāYāYŸb'āAYāA
Y~@^~@'YbžĚ

Ě^@Ab@žYā^āāA^aAžāž@Yā'āā^@ & Yb'āDAYāā'ābYāYžDAY^@ \ @bžā [AYāZā^āZā^@žž@DAYāZAb^AYāā \ @žAbāYbAbāžA
Uā | žā'b [A'ā'ā'āY^&~ā'YāžZ { 'bāAžāYāYāZAY^āžZāž* \ @ž & žābDAbāžA \ á \ žā'b [A~@^Yžāāž@ž* \ @žābāYbA
āb \ ZZābāY^ābž & ~āYb'āāAZž & ^āāb@Yb'āāYāZāA' & 'āY@AYŸb' | b'žāA & YæžAbāž'@'ābžāb'āāAæā' { ā'āAYZ | YāYžA
b^AbāžāNžYāA^ATb \ ZZābābā@ \ áāAYa & žžb'āāAb^AZ'āY'āāAbāžAY@Yāāž & žābāA^@Abāžāž | žābAYāZAY^&~āžb'āāAYa
ZZ & ^āāb@Yb'āA@žā'āb@Yb'āAa^@ & Aa^@AY~@^ | YāĚ

bāžA \ āžā^AbāžA \ á \ žā'b [Aa^@ \ & Aa^@Až'] ~@žāā'āA^aA'ZžYāA^@A | ž { ~^ābāZ^āžā^Abā' & ~ā [AYŸYž~bYāYžA^@A
žāZ^@āž & žābAY' | AbāžA \ Uā' | žā'b [A^AbāžA | ž { āž'] ~@žāāžĚ

) PSE 5MJGAW

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

bāžA \ Uā' | žā'b [A~@^ā'Y'ābābāžā'āāžāYā \ āžDA~^āāžāā'āāDāYāžZAZ'āb@'Y \ b'āDA & Yā \ aYŸb \ @žDAYāžĚ^@A^@ { bāA^aA
'āāžāYāDāā | ābāžb'YDA^@AY^ \ ābž@āž' bAZ@ \ áāA^āUā' | žā'b [A~@^ & 'āžāA^āYā \ žžāA~@^~ž@b [A~@^ž@YbžZā^aAbāžA & Y'āA
YŸY & ~ \ ābDAYbAYā [AUā' | žā'b [Aā~^āā^@žžāž'] žābA^@A~@^ā@Y & A^ā'āYā \ Z'āāAb \ Z [AYŸ^@YZAYāZā' & žž@ā'āA
ž'] ~ž@žāYžābāžāY@žāžāāA^aA { āž@žā'AbAYæžāA~āYŸžĚA \ kā^AY'Yb'āA { 'bāA^ā'āYā \ Z'āāAbāžA~@žāžāYžAYbBA
āYbāž@'āāā'ā' | ^ā | 'āāā \ YāA \ āžDA~^āāžāā'āāDāYāžZAZ'āb@'Y \ b'āDA & Yā \ aYŸb \ @žA^@A^@ { bāA'āYāā^A
~@^ā'Y'žžĚA^āāžāā'āA^@A \ āžA^aAž* \ ~ & žābDA~@^Z \ YbāDA^@A & Ybž@'YāDAbāYbAYžA \ āžZā^@AY@žAbžYā^āYā [A
Yāb'Y'~YbžZAb^AYžA \ āžZā'āAbāžA & Yā \ aYŸb \ @žDāA^@ { bāDAZ'āb@'Y \ b'āDAāYāžZā^@A \ āžA^aA'āāžāYāDāā | ābāžb'YDA^@A
Y^ \ ābž@āž' bAZ@ \ áāA^@A'āAbāžA & 'ā \ āžDāYāžZā^@AZ'āb@'Y \ b'āA^aA~@žāY'~b'āāAZ \ áāā'āA~@^ā'Y'žžĚA@Y & ~āžāA^aA
ž* \ ~ & žābDA~@^Z \ YbāDAYāZā & Ybž@'Yāā'ā'Yā \ žžAY \ bAY@žā^Abāā' & 'bžZAb^AY^āāāA~ \ @YāYāžZā^@A^&žE & YžžBDA

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

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

Tb\žžābāAa^āZ^Ažā~^āā'YāžAbā@^ \āāAbāžāY^āZ\YbA~@^YžžāAa^AbāžāYāžDAZ'āb@'Y\^āDA&Yā\āYb\@žDA
YāžÉ^@Aā@^ { bāA^aA'āāžāYāDAā [ābāžb'YDAYāžÉ^@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^ \āZ@žā~^āā'YāžAa^AbāžāYāžAYāžÉ^@AZ'āb@'Y\^āA^aA
~@žāY@'~b'^āAZ@ \āāÉ

Pž&Yžā^aAbāžAÚā'|žāā'b [AY^& & \ā'b [AY@žāž}~žYbžžAb^AYžAY { Y@žA^aYāZ^A^Yž [Aažžž@YāDAābYbžDAYāZA
& \ā'Y~YāāY { āA^@A^@Z'āYāYžāA@žā \āYb'āāAbāžA\āžDA~^āāžāā'^āDAāYāžDAZ'āb@'Y\^āDA&Yā\āYb\@žDAYāžÉ^@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~YāY\āb^@'b'žāā&Y [AYāā^AaYžāYUā'|žāā'b [AY^āZ\YbA~@^Yžžž'āāāÉA
pāžAÚā'|žāā'b [A@žāž@ |žāAbāžA@'āābAb^AbYāžAZ'āY~ā'āY@ [AYYb'^āAYāY'āābAYā [Aāb\žžābAa^@A^aEYY&~\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'āāžāā&Y [Aa^āžāžž@YāA^@AābYbžā'āYāY'YāY'ZÉA Tb\žžābāA { ā^AbāžāY'Z\žžAb^AZ@ \āA|^āYb'^āāA
YāA^YābYbAbāžACE'āYāY'YāY'ZURaa'YžAYbAÉHT ^@ÉYāB É M šb\Z āāY `@ÉÉHP `@

ŽŸ@ZDabâŽAâb\ZZâbâYâAbâŽA'ââbAb^A~âYŸŽAYââbYbŽ&ŽâbA { 'bâAbâŽA@ŽŸ^@ZââŽbb'ââAa^@bâââ'âA^@AâŽ@A
| Ž { AYŸ^ \ bAbâŽAŸ^âbŽâbŽZA'âa^@ & Yb'^âÉ

€ÉA PaŽA@'ââbAb^AŸ^ââŽâbAb^AZ'âŸ^â\@ŽâA^aA~Ž@â^âYââ [A'ZZâb'a'YŸâŽA'âa^@ & Yb'^âAŸ^âbY'âŽZA'âAbâŽA
âb\ZZâbâAŽZ\ŸYb'^âA@ŽŸ^@ZâDAŽ}ŸŽ~bAb^AbâŽAŽ}bŽâbAbâYbACEOŠSŁAY\ bA^@]ŽâAZ'âŸ^â\@ŽA { 'bâ^ \ bA
Ÿ^ââŽâbÉ

RâŽAŽ}ŸŽ~b'^âAbâYbA~Ž@ & 'bâAZ'âŸ^â\@ŽA { 'bâ^ \ bAŸ^ââŽâbA'âAZ'âŸ^â\@ŽAb^AâŸ^â^âA^aa'Ÿ'YââA { 'bâA
âŽâ'b' & YbŽAŽZ\ŸYb'^âYâA'âbŽ@ŽâbâÉAŁAâŸ^â^âA^aa'Ÿ'YâA'âAYA~Ž@â^âAŽ&~â^ [ŽZAY [AbâŽAUâ | Ž@â'b [A'âAYâA
YZ&'â'âb@Yb | ŽDAâ \~Ž@ | 'â^@ [DAYŸYZŽ&'YA^@A@ŽâŽY@ŸâDA^@Aâ \~^@bAâbYaa~^â'b'^âAâ'âŸ^â\Z'ââAŸ { A
Žâa^@ŸŽ&ŽâbA \ â'bA~Ž@â^ââŽâAYâZââŽYâbâAâbYaaBIAŸA~Ž@â^âA^@AŸ^â & ~Yâ [A { 'bâA { â^ & AbâŽAUâ' | Ž@â'b [A
âYâAŸ^âb@YŸbŽZââ\ŸâAYâAYâAYbb^@âŽ [DAY\Z'b^@DA^@AŸ^ââŽŸb'^âAYâŽâbBIAŸA~Ž@â^âAâŽ@ | 'ââA^âAbâŽA
Ÿ^Y@ZA^aAZ'@ŽŸb^@âiA^@AYâab\ZZâbAâŽ@ | 'ââA^âAYâA^aa'Ÿ'YâAŸ^â & 'bbŽZDAâ \ ŸâAYâAYAZ'âŸ^â~â'âY@ [A^@A
â@ Ž | YâŸAŸ^â & 'bbŽZDA^@AYââ'âb'ââAYâ^bâŽ@AâŸ^â^âA^aa'Ÿ'YâA'âA~Ž@â^@ & 'ââA^âA^@AâŽ@AbYâââÉAŁA

Ž&Žážáŷ[A~ŽááážáÉPaŽAÓ^ZATY&Y@bYaAS^áŷ[AY~~áŽááAá\Yb^ááA^á|ááAYáŷá^áDA
^báŽ@AZ@ááDAábž@~ŽáááYáA|ááŽáŷZDAYáZ^báŽ@Aá\Yb^ááAY^ááZŽ@ŽZAZYááZ@^ááŷ[AYA
@ŽYáááŷáZ~ŽáááÉA9FGQ KC?LQ RF?R LM DMPK?J : LGTCPQGRW B@QAGNJGL?PW ?ARGMLQ MPA
Q?LARGMLQ U@GJ @C ?QQ@ELCB RM RFC PCNMP@GLE QRSBCLR^Q^DMP K@LMP T@MJ?R@MLQ PCJ?R@LE RMA
RFC @LAGBCLRi PaŽA^áŷZžáA { ááAáb ááAYžAZ^ŷ\ & ŽábžZAYáZžZ\ŷŷb^ááYáAZÉ^@áážYábA
ŷ^á|žááŷ^ááÉábž@|žáb^ááA&Y[AYžA@ž* \ @žZAYáAYáAYábž@áYb|žAb^AZ^áŷ~ááY@[AáYáŷb^ááÉ

PaáA~^áŷ[AZ^žáá^bA~@^bžŷbA@ž~žŷbžZDAaYáYáBDA^@Aáž@^á|áA|ááYb^ááA^aAbáŽATb\žžáBaN^žžAžÉáÉA
ŷŷ\á|žáŷ^áZ\ŷbDA^ábž@~ž@ááYáA|ááŽáŷZDAž^ábŷ\Yb^ááAYáŷá^ááAYáZÉ^@A^báž@AZ@ááDAáY]ááDabážAbDA
~@^~ž@b[AZY&YážDAžbŷÉBA^@A|ááYb^ááAbáYbAáY@&AYá^báž@A~ž@á^A@ž* \ @^ááZ&ž@ážáŷ[A@žá~^áážDA^@A
Z^žáAbážA~^áŷ[A~@žŷá\žžA^@A~@ž|žábAYŷb^ááY[A~^áŷžA^@AžáYáY\bA^@b^žáÉ

ÓáAYáá\Yb^ááA^á|á|ááA^& & ážáBazyááž@Ab^AbážAážYábáAYáZÉ^@AáYážb[A^aAYá[A^áZ|Z\YááBDAáb\žžáBáAY@žA
ž}~žŷbžZAb^i

- ÉÉA N^ábYŷbAÓNUSŇAÁĐÈHEÉÍ IEÉĐ€FBDAŠžáZžáŷžAÓ^ažDA^@A^báž@Až&ž@ážáŷ[A
^aa^ŷŷáAb^A@ž~^@bAbážA^áŷZžábi
- ĐÉA Šž&ŷ^á { bAbážA^áZ|Z\YááBAAžžž^ááž&ž@ážáŷ[Ab@žŷb&žábAYáZAY^~ž@YbžA { bAA
ž&ž@ážáŷ[A~ž@á^áážáAYáAááAYáA^ááAYážAb^AZ^A^i
- €ÉA PžžbA { bAAŷ~@^~@YbžAUá|ž@á\A^aa^ŷŷáAYabž@AbážA^áŷZžáBAYáZAY^~ž@YbžA { bAAŷA [A
Uá|ž@á\A^a|žáb^áYb^ááÉ

CEŷá\@žA^aAb\žžáBAb^AbYá@žA@žá~^ááŷážAYŷb^áA^ážž@Abá^á~^áŷ[A { áž@žAYŷb^áA^áAYážY@á [A { Y@@YábžZAZ
YáZáAY@&A@žá\ábáA&Y[DA^áAžá@žá^á\ááŷ@ŷŷ\ &ábYáŷžáDAŷ^ááb\AbžAAžAZYááž@^ááAYá[A~ž@á^Až^báž@A
^ábžá\ááŷáA^@A@žŷŷáážá@ÁA^ážž@AbážATb\žžáBaN^žžAYáZAY^áZ@žá\ábA^áAZ^áŷ~ááY@[AYŷb^áAbá@^ááAbážA
Tb\žžáBaN^áZ\ŷbAT[áŷ&ÉAbá^á~^áŷ[AZ^žáA^bA~@^|žžAY&ážáb[Aa^@Aáb\žžáBáA { á^A@ž~^@bAbáž@A^ { áA
&žžŷYáž&ž@ážáŷ[É

- ?RC +PCC 5MJGAW

Ó^ááANŷ@^ááAUá|ž@á\A^aa^ŷŷáAY&&^bžžAb^Aa^abž@^áážbáŷŷáAYáZAZ&^@YáA|Yá\žáAbáYbAY@žáŷ^áá^ábžáB { bAA
Óžá\^bAYáZANŷb^á^ŷAb^YZ^b^ááÉA& &^ááAbážAYžábYáA|Yá\žáA^aAbážAUá|ž@á\AY@žAbážA^ááž@žáB^áá\žžáA
^aAž|ž@[A^áZ|Z\YáAYáA { žááAYáAbážA@^ááAb^ažŷŷá~ž@á^Ab^A^áZAYáZAb^Až}~@žááá^á^@Až@A|ž { ~^ábÉA
ÚážáAbážážA|ž { áAY^áá^ŷbA^áAbážA^áŷ^áYb^áA^aA&ž&ŷž@áA^AbážAY^& & \á^b[Ab^A@žá~žŷbAbáž@A
~ž@á~žŷb|žáÉ

PažAUá|ž@á\A^aa^ŷŷáAY&žáAb\žžáBDAAYŷ\Ab[DAAbYaaDAYáZAZ|á^b^@áAa^&AZ|ž@ážAYŷŷá@^á\áZáAYáZAbA { @æáA
b^Ažáá\žAbáYbAbáž[A { ááA^áZAbážAUá|ž@á\A^aa^ŷŷáAY&^@YáZá|@^á&žábA@žžA^aAZ^áŷ@^&^áYb^@[AY^áZ\ŷbÉAÓBa^á
\áŷŷž~bŷŷáZAYáZAY|ááYb^áA^aAUá|ž@á\A^aa^ŷŷáAY@YááDAYŷ\ážDA^@AZ^áŷ@^&^áYbZAYá^ááAYá[A
~ž@á^áAYžŷŷ\ážA^aAYážDA^ŷŷžDAžážž@DAžbá^ŷb[DAáž]\YáA^@žábYb^áDA@žá^á^áDA^@AZ^áŷŷ^á^b[É

Ó^ááANŷ@^ááAUá|ž@á\A^aa^ŷŷáAY&žáAb\žžáBDAAYŷ\Ab[DAAbYaaDAYáZAZ|á^b^@áAa^&AZ|ž@ážAYŷŷá@^á\áZáAYáZAbA { @æáA
ŷŷbAbAZ^žŷbžZAYbAYáA^áZ|Z\YááBAA^aAbážAYá^áA^aAYážDA^ŷŷžDAžbá^ŷb[DAážážž@DAáž]\YáA^@žábYb^áDA
@žá^á^áDA^@AZ^áŷŷ^á^b[A { bAA^ábžáb^áAb^A^áb^&^ZŷbžA^@A^á\@žAYáA^áZ|Z\YááBAA~á[áŷŷá[DA&žábYá[DA^@A
ž&^b^áAYá[ÉAÓYbžA&^b|YbžZAA^aažáážáAY^&~@^&^ážAbážA^ábžá^b[A^aAbážAÓ^ááANŷ@^ááAUá|ž@á\A^aa^ŷŷáAY&&^á^b
ŷ^& & \á^b[AYáZAY^áá^b\^bžA|ááYb^ááA^aAbážAÁOááYá^áA^áAY^Yáá&žábAYážžA^áAYážDA^ŷŷžDAžážž@DA
žbá^ŷb[DAáž]\YáA^@žábYb^áDA@žá^á^áDA^@AZ^áŷŷ^á^b[A~@^|á^á^aAbážATb\žžáBaN^žžAžŷb^áAbYBÉA&á^AYááA
ŷŷážA^aA&^áŷ^áZ\ŷbDA^áŷ^áZ^ááAYbžA&^b|YbžZAA^aažáážADAY^bAbážA@žá~^ážžábAYáZAbážAb\žžáB { á^A
ŷžá|žááÉážáAYáŷžžáAY@žŷ~žábA^aAbážA@žá~^ážžábA&^áŷ^áZ\ŷbAY|ž@^áábAbáYbAY@žA^á^bžZAZ
bA^@ááAbážATb\žžáBaN^áZ\ŷbAS^ŷŷááÉPažážA@^ááBAY@žáŷ^áY^ážZAZ^áAbáž^@Ažáb@žb[Aáž@žA
[ább~jĚĚá bžáŷáŷĚžZĚžŷá^ááb\žžáBáÉ~Yážáŷŷ&& & \á^b\[ÉábYáZY@žáÉŷ^áZ\ŷbÉa|ábž&É](#)

P Ž & Ÿ ž ā ā a b ā ž ā ō ā ā n y @ @ ^ ā ā u ā | ž ā b [a Ÿ & & \ ā b [a y ā ā ž Ÿ b ž z ā y [a ā y b ž ē & ^ b | y b ž z ā ā ā ž ā ā y ž ā ā b @ ^ ā ā ā [a ž ā Ÿ y b \ y ā ž z ā b ā ^ ž ~ ^ @ b ā b ā ž ā ž ā ā Ÿ z ā ā ē ā t \ Ÿ ā ā ā ā ā ž ā ā Ÿ ā ā y ā Ÿ ā ā ž ~ ^ @ b ž z ā b ā ^ ā y a | y @ ž b [a ^ ā ā ā ā ā Ÿ ž ā ā ā ā Ÿ y & ~ \ ā ā ā Ÿ ā \ z ' ā ā ā ā n ž y ā ā ā t b \ z ž ā b ā ā r ā ā Ÿ ž ā r ā ā Ÿ ž ā ā ā š ž ā z z ā Ÿ ž ā ō ā ž ā ō ā ā ā n y @ @ ^ ā ā ā s ā Ÿ ž ā ā n ž ~ y @ b & ž ā b d a y ā z ē ^ @ b ā ā ^ \ ā ā ā b ā ž ā m \ y ā ā ō ā Ÿ ž ā b ā š ž ~ ^ @ b ā ā ž ā ā b b ~ ě ě ā b ž ā ē ā Ÿ \ ě z z \ ě y \ y ā ē ~ y ā ž ā ē ž ~ ^ @ b ē y \ y ā ē

T b \ z ž ā b ā ā ^ \ ā z ā ž ā ~ ^ ā ā Ÿ ā ž ā ā ^ ā ā y b ž ē & ^ b | y b ž z ā | ^ ā y b ^ ā ā ā y @ ž ā ā \ Ÿ ā ž Ÿ b ā b ^ ā y ā y ā ā ž ā ā z ā Ÿ ~ ā ā y @ [a y Ÿ b ^ ā ā ā \ ā b ^ ā y ā z ā ā Ÿ ā \ z ' ā ā ā ž } ~ \ ā ā ^ ā ā ā ^ & ā b ā ž ā u ā | ž ā b [ě

p ā ā ā ~ ā Ÿ [a ā ā ā ž ~ y @ y b ž ā y ā z ā Ÿ ā b ā Ÿ b ā ā ^ & ā b ā ž ā ō ā ā n y @ @ ^ ā ā ā u ā | ž ā b [a t ž } \ y ā ā ō y y ā ā & ž ā b ā ~ ā Ÿ [ā b ā y b ā Ÿ ā ā Ÿ ž ā ā ^ \ ā z ā ā ž @ ā ā b b ~ ě ě ā b ž ā ē ā Ÿ \ ě z z \ ě y \ y ā ē

- ?XGLE 5PMFG@GRGML 5MJGAW

Ō b ā ā b ā ž ā ~ ā Ÿ [a ^ ā ā ō ā ā ā n y @ @ ^ ā ā ā u ā | ž ā b [ā b ā y b ā ā y] ' ā ā ā y Ÿ b ' | b ž ā ā ā y ā [ā b [~ ž ā y @ ž ā ā Ÿ ā ā ā ā b ž ā b ā { b ā ā ž z \ Ÿ y b ^ ā ā y ā z ā y @ ž ā ~ ^ ā ā Ÿ b ž z ā y b ā y ā ā b ' & ž ā ē ā q ^ ā ā b \ z ž ā b d ā ' ā y ā \ z ' ā ā ā ā ž z ā ā ā ā ā ā b \ z ž ā b ā ^ ā y ā '] y b ^ ā ā ā & y [a ~ ā y ā d ā ž ā Ÿ \ @ y ā ž d ā ^ ā ž ā ā y ā z ā ' ā ā ā y ' ā ā ē ā q ^ ā ā b \ z ž ā b d ā ā b y ā ā d ā ā y Ÿ \ ā b [a & ž & y z @ d ā y ā \ & ā ' ā y ž b ā ^ ā b ā ž ā ž @ ā ž & ~ ā ^ [ž z ā ā ā ō ā ā ā n y @ @ ^ ā ā ā u ā | ž ā b [a & y [a z ā Ÿ ^ \ y ā z d ā ~ ž @ & ^ b d ā Ÿ ā z ā ā ž d ā ^ ā b ā ā ž @ y b ž ā y ā [ā ā y] ' ā ā ā y Ÿ b ' | b [ě

Ō y] ' ā ā ā ā z ž ā ā ž z ā y ā z ā ' ā ā ā y ā [a y Ÿ b ā ^ ā Ÿ ^ ž Ÿ y ' ā ā ā y ā ^ ā b ā ž @ ā ~ ž @ ā ā b ^ ā z ^ ā y ā [a y Ÿ b ā b ā y b ā y Ÿ \ ā ž ā d ā ^ ā y @ ž y b ž ā ā y ā @ ^ ā ā ā ā ā y Ÿ \ ā ' ā ā d ā ~ ā [Ÿ ā ā ^ ā ā Ÿ y ā ā ^ ā [ā Ÿ y ā ā ā y @ & ā b ^ ā y ā [a ~ ž @ ā ā ē ā ō y] ' ā ā ā ā y ā \ z ž ā ā y Ÿ b ^ ā ā ā ā ā ā b \ y b ^ ā ā ā b ā y b ā Ÿ \ ā z ā ^ ā z ā ^ ā z ā \ ā b ā ' ā ā & ž ā b y ā d ā ž & ^ b ^ ā y ā d ā ^ ā ā ~ ā [ā Ÿ y ā z ā Ÿ ā Ÿ ^ & a ^ @ b d ā ž & y y @ y ā ā & ž ā b d ā @ z y \ ā ž d ā ^ ā ž ā z y ā ā ā ž @ & ž ā b ā { ā ž b ā ž @ ā ā b ž ā b ^ ā y ā d ā ^ ā ā ā \ ā d ā ^ ā ā y [a Ÿ y ā ā z ā b ē ā ō y] ' ā ā ā ā y ā ā ā y ^ ž Ÿ y ' ā ā ā y ā ^ ā b ā ž @ ā ~ ž @ ā ā ā b ā ā | ^ ā y b ž ā y ā [a u ā | ž ā b [a ~ ā Ÿ [ē ā r y] ^ \ ā ā ž } y & ~ ā ž ā ā ā ā y] ' ā ā ā ā y ā \ z z ā y \ b ā y @ ž ā ā ā ā ' & b ž z ā b ā ā { ā ~ ~ ā ā d ā y ž y b ' ā ā d ā ^ ā y @ y ā z ā ā ā ā ^ @ ž z ā y Ÿ y ā ' ā b ā ž ā Ÿ ā ā ž } ~ ā ā \ ž ā b ā ā { ž y b ā ž @ ā ā ^ y ž z ā ā ^ ā @ ž * \ ' ž z ā y ā ā ā \ & ~ b ^ ā ā ā ā y ā [ā ā ^ ā z d ā ā * \ ^ @ d ā y ž | ž y ā z d ā z @ \ ā d ā ^ ā y ā [ā ā \ y ā b y ā Ÿ ž ā y ā [a y @ \ b y ā ā ^ ā y @ \ ž ā ā b ž y b & ž ā b ā y ā z d ā y ā [a y Ÿ b ' | b [a { ā y ā ā \ y ā ž Ÿ b ā y ā [ā ā b \ z ž ā b ā ^ ā b ā ž @ ā ~ ž @ ā ā ā b ā ā @ z y \ ā z d ā & ž ā b y ā ā ā b @ ž ā ā d ā ^ ā ā \ ā z \ ž ā ~ ā [ā Ÿ y ā z ā z \ @ y ā y ž ē

T b \ z ž ā b ā d ā ā b y ā ā d ā y Ÿ \ ā b [a & ž & y ž @ ā d ā y ā \ & ā y ž ē ' y ā z ā y ā ā ā b ā ž @ ā ž & ~ ā ^ [ž z ā ā ā ō ā ā ā n y @ @ ^ ā ā ā u ā | ž ā b [ā ā ā ^ \ ā z ā y ž ā y ā ž @ b ā b ^ ā ~ ā ā Ÿ ā ž ā ā b \ y b ^ ā ā ā d ā y Ÿ \ & ā b y ā Ÿ ž ā ā ^ ā ž | ž ā b ā ā { ā Ÿ ā ā & ' ā ā b ā ā Ÿ ā \ z z ā ā y] ' ā ā ē

Ō ā ā y] ' ā ā ā ^ ā ~ ā y ā ā ž z ā ā y] ' ā ā ā ā z ā Ÿ ^ ā | ž @ ž z d ā ' ā | ā | z z ā ā b \ z z ā b ā ā { ' ā ā ā y ž ā ' ā ā ^ @ & ž z ā y [ā b ā ž ā z ā Ÿ y | ž @ ' ā ā ā ~ ž @ ā ā ā ā ā b ā ž ā ~ @ ā Ÿ b ^ ā ā ā Ÿ ā b y ' ā z z ā ā ā ā ^ ā Ÿ [a y ā z ā { ' ā ā ā y ž ā ā z * \ ' ž z ā b ā ā z ā z ā y ā ā ā y] ' ā ā ā y Ÿ b ' | b ž ā ā ' & ž z y b ž ā [ē ā ā ā ā y] ' ā ā ā y Ÿ b ' | b ž ā ā & \ ā b ā y ž ā ā ž ~ ^ @ b ž z ā ' & ž z y b ž ā [ā b ^ ā b ā ž ā n ž y ā ā ā t b \ z ž ā b ā ā r ā ā Ÿ ž ā y ā z ā b ā ž ā n ' @ ž Ÿ b ^ ā ā ā t b \ z z ā b ā ā y Ÿ b | b ž ā ē

T b \ z z ā b ā ā | ^ ā y b ž ā b ā ā ~ ā Ÿ [a ā b ā ž [a z ā ā ā b ā ā ž ~ ^ @ b ā ā Ÿ z z ā b ā ā ā ā y] ' ā ā ā ^ ā ~ ā b ž ā b y ā ā ā y] ' ā ā ā b ā b ā ž ā n ' @ ž Ÿ b ^ ā ā ā ā ā t b \ z z ā b ā ā y Ÿ b | b ž ā ā ^ ā b ^ ā b ā ž ā n ž y ā ā ā t b \ z z ā b ā ā r ā ā Ÿ ž ā t b y ā ā d ā y Ÿ \ ā b [a & ž & y ž @ ā d ā ā b \ z z ā b ā d ā y ā z ā y ā ā ā b ā ž @ ā ž & ~ ā ^ [ž z ā ā { ā ā ā y ā ā b ^ ā y Ÿ z z ā y [ā b ā ' ā ā ~ ā Ÿ [a & y [a y ž ā ā \ y ā ž Ÿ b ā b ^ ā u ā | ž @ ā b [a y ā z ē ā ^ ā ā y b ^ ā y ā ā ^ ā y ā] y b ^ ā ā z ā Ÿ y ~ ā ā y @ [a y Ÿ b ^ ā ā y ā z ā & y [a y ž ā ā y Ÿ ā ž ā ā ^ ā y] ' ā ā y ā z ā y Ÿ @ ' & ā y ā ā ~ ž ā y ā b ž ā ā ā ā y Ÿ y ^ @ z y ā y ž ā { ' b ā ā ā ž z z @ y ā d ā ā b y b ž d ā y ā z ā & \ ā Ÿ ~ y ā ā y { ā ē

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~^á'Ÿ[DA & \ábAY'ŽA \ ážZA'áAYA & YááŽ@AbáYba \ @báŽ@āAbāŽAUá | Ž@ā'b [ĥāA & 'āā' ^áÉ

Ľá[AYŸŽžāā^@A \ āŽA^a'āa^@ & Yb'^āAbŽŸāā^á'á [A@Žā^ \ @ŸŽāAbāYbāŸ'āā'ŸbāA { 'bāAbā'āAāā^@ & Yb'^āAbŽŸāā^á'á [A
Šžā^ \ @ŸŽāAS^á'Ÿ [ĀĀS^á'Ÿ [ĀĀ@ĀĀOPAS^á'Ÿ [ĀBA^@AYā [A^bāž@AUá | Ž@ā'b [A~^á'Ÿ [A'āā^bAYŸŸŽ~bYŸ'āZAYāZA { 'āāY'ŽA
Ÿ^āā'žž@žZAY | 'ā'Yb'^āA^Abā'āAS^á'Ÿ [ĒĀĽZZ'b'^āYāā [DAYā [AYŸb' | 'b [AbāYbā'ābž@ažž@žāDA'ābž@@ \ ~bāDA
Ÿ^ & ~^@^ & 'āžāDA^@AY^āā'ŸbāA { 'bāAbāžāāYāžAYāžAZā'ŸžābA \ āžA^aAOPASžžā^ \ @ŸŽāA'āā'žž@žZAY | 'ā'Yb'^āA^aA
bā'āAS^á'Ÿ [ĒA'ā'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^aAOPASžžā^ \ @ŸŽāDA
ž | žāA { āžāAYŸ@žžA^ \ bA^āAY~@ | Ybžā [A^ { āžžAY^ & ~ \ bžžAbāYbā'āā^bA & YāYāžžA^@A & Y'ābY'āžžAY [AbāžA
Uá | ž@ā'b [DA'āA^ \ ž@āžžAY [Abā'āAS^á'Ÿ [ĒA'ā'āAS^á'Ÿ [Āā \ ~ž@āžžāAYā [Až] } 'āb'āā~^á'Ÿ žāAYāZ~@^Ÿžž \ @žāA
bāYbAY@žA'āAY^āā'ŸbA { 'bāAbāžAbž@ & āA^Abā'āAS^á'Ÿ [Ē

..15 : 7548 *

pāŽA~ \ @~^āžA^aAbā'āAS^á'Ÿ [A'āAb^Ažžā \ @žAYāA'āa^@ & Yb'^āAbŽŸāā^á'á [A'āa@Yāb@ \ Ÿb \ @žAbāYbA~@^ & ^bžāAbāžA
ŸYā'ŸA & 'āā' ^āAYāZA~ \ @~^āžA^aAbāžAUá | Ž@ā'b [A'āAbŽŸYā'āāDAžY@ā'āāDAāž@ | ŸžDA@žāžY@ŸāYāZAY
YZ & 'ā'āb@Yb'^āDAYāZAb^Ažžā \ @žAY^ & ~^á'YāžA { 'bāAYāāAY~ā'ŸYŸāžāY { āĒAObAYāāA~@^ | žžāā^b'ŸžDAb^AYāāA { ā^A
 \ āžAYāZA & YāYāžAOPASžžā^ \ @ŸŽāDA^aAbāžAUá | Ž@ā'b [ĥāž] ~žŸYb'^āāAYāZA@žA \ āYb'^āāĒ

...185.7.9 4+ : 8 *

Uāž@āAY@žA@žā~^āā'ŸāžA^@AbāžA~@^bžŸb'^āA^aAUá | ž@ā'b [AYāāžbāAYāZĥa^@AbāžAYŸŸ \ @YŸ [DA'ābžā@'b [AYāZA
Ÿ^āā'žžāb'Yā'b [A^aAbāžA'āa^@ & Yb'^āAb^A { ā'ŸāAbāž [ĀAY | žAYŸŸžāāĒAUāž@āAY@žAž] ~žŸbžžAb^A \ ~^ā'ā'žAbāžA
ābYāZAY@žāAYāZA~@'āŸ~āžāA^aAbāžAUá | ž@ā'b [A { ā'žā \ ā'āāOPASžžā^ \ @ŸžāĒĒĒŸŸ^@ž'āāā [DA \ āž@āAY@žA~@^a'ŸbžžA
a@^ & A \ ā'āāAYā [A~^@b'^āA^aAOPASžžā^ \ @ŸžāAb^A~ābA^@Ab@Yāā & 'bAYā [A'āa^@ & Yb'^āDAŸYbYDAbž] bDAa'āžDAā'āāDA
ā^ab { Y@žDAŸāYbDAŸ^ & \ ā'ŸYb'^āA^@Abāž@AY^ābžābAbāYbā'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'ŸāāžāYb' | žā [AYāāžŸbābāžAUá | ž@ā'b [DAYā^bāž@AUāž@DA^@AYā [Abā'@ZA~Y@b [ĒAUāž@āA { ā^AZA
ā^Ab@žā~žŸbAbā'āAT~@'bā^aAUāžA & Y [AYžAāžāžA'āA | 'ā'Yb'^āA^aAbā'āAOPAS^á'Ÿ [Ē

. ; |) * +.3.9.438

& |) ? R ? ĒA

¡ 541. (> *1&' 47&9.43

&¡ &AACQQÉĀĽ ŸŸŽāāAb^Aā^&ŽĀŌPĀŠŽā^ \ @ŸŽāā'āā@Žāb@ ŸbŽZAb^Aā~ŽŸ'a'ŸA~^ā'b'^āā^@A \ ā'bāYāA
ZŽbŽ&'āZZĀY [AbāŽAY~@^~@ ŸbŽāA \ āŸb'^āYā \ ā'bāāŽYZÉACE \ āŸb'^āYā \ ā'bāāŽYZāāā^ \ āZAZŽbŽ&'āŽA
YāZAY \ bā^@'] ŽābāŽAY~@^~@ ŸbŽāZā@ ŽZĀ^aAYŸŸŽāā^ā@āŽŸŸā&Ž&ŸŽ@A^aAbāŽ@A \ ā'bāDAYāZāā^ \ āZā
~@^| ŽZĀ \ ā'bā&Ž&ŸŽāā { 'bāAYZZ* \ ŸbŽĀ^@ ŽābŸb'^āAYāZAb@Y'ā'āā@ŽāY@Z'āāAbāŽAY~@^~@ ŸbŽĀ \ āZĀ
^aAYāāŌPĀŠŽā^ \ @ŸŽāÉAUA'āāŌPĀŠŽā^ \ @ŸŽāĀ^ \ bā'ZŽĀ^aAbāŽāāŸ^~ŽĀ^aAYŸŸŽāā^ā@YābŽZĀY [AbāŽĀ
Uā' | Ž@ā'b [A^@AYbbŽ&~b'āāAb^AŽ} ŸŽZĀ@Žāb@ Ÿb'^āā^āAYŸŸŽāā^āAYāāŽ@'^ \ āA | 'āŸb'^ā^aAbā'āAS^ā'Ÿ [A
YāZA & Y [A~^bŽāb'Yāā [AbŽYZAb^AY@' &'āYā~@^āŽŸ \ b'^āÉ

' ¡ 9CAFLGA?J ?LB (MLRCLR' ?QCB 7CQRPGARGMLQÉĀPāāŽAUā' | Ž@ā'b [A@ŽāŽ@ | ŽābāŽĀ@'āābAb^A
' &~āāŽAbŽŸāā ŸŸā@Žāb@ Ÿb'^āā^āAbāŽAYŸŸŽāāb^A'bāāŽb { @āA'āA { Y [āAbāYbA & Y [AZ'ā@ \ ~bAbāŽĀ
YŸ'ā'b [Ab^A \ b'ā'] ŽŸŸ@bY'āAZŽ | ŸŽāDA~@^ā@Y &āDAYāZA~@^b^Ÿ^āāÉĀĽZŽ' b'^āYāā [DAbāŽĀUā' | Ž@ā'b [A
Ž]~@Žāā [A@ŽāŽ@ | ŽābāŽĀ@'āābAb^A' &~āāŽŸŸ^ābŽābÉYŸāŽZĀ@Žāb@ Ÿb'^āā^āAbāŽĀ \ āŽĀ^a'bāŌPĀ
ŠŽā^ \ @ŸŽāÉAT \ Ÿā@Žāb@ Ÿb'^āā&Y [AYŽāāŽŸŽāāY@ [Ab^A~@^bŽŸbāāŽĀUā' | Ž@ā'b [AYāZA bāA
Ÿ^āāb' b' ŽābāÉPāŽĀUā' | Ž@ā'b [A@ŽŸŸ^āā'] ŽābāYbAYŸŸZŽ&'ŸA@ŽZŽ^ &AYāZAbāŽā@ŽZŽ^ &A^a'ā' \ @ [A
Y@ŽĀ' &~^@bYābA | Yā \ ŽāAbāYbA & Y [AYŽĀā'āZŽ@ZZĀY [AYāA^ | Ž@] ŽŸā^ \ āA@Žāb@ Ÿb'^ā^aAb^AŸ^ābŽābÉ
PāāŽ@Žā@ŽDAYā [AY^ābŽābÉYŸāŽZĀ@Žāb@ Ÿb'^āāŸāāŽ&ŽĀ' &~āāŽZĀ^āŌPĀŠŽā^ \ @ŸŽāA { 'āā@Ž* \ @ŽĀ
Y~@^~@ ŸbŽĀU'ŸŸAS@Žā'ZŽābAY \ bā^@'] Ÿb'^āÉ

(¡ &AACQQ (MBCQÉĀUāž@ā& \ ābAbYāēŽ~@ŽŸŸ \ b'^āāAb^A~@Ž | ŽābA \ āY \ bā^@'] ŽZĀ \ āZĀ^aAbāž@A
YŸŸŽāāAY^ZŽāĀ~Yāā { ^@ZāBÉAUAž@ā { 'āāŸĀāžāZAYŸŸ^ \ ābYŸāŽĀ^@AYāāYŸb'^āā~Ž@^@ &ŽZĀ
 \ āZŽ@Abāž@AYŸŸŽāāŸ^ZŽāDA'āŸā \ Z'āāAbā^āZĀ~Ž@^@ &ŽZĀY [A^bāž@'āZ' | Z \ YāāAYāA@Žā \ ābAb^A
āŽā'āāŽŸĀ'āA~@^bŽŸb'āābāŽĀŸ^ZŽāÉ

) ¡ 5PQT?AWÉĀUāž@āY@ŽĀŸŸ'āYbŽZAb^A@Žā~ŽŸbAbāžĀ~@' | YŸ [AbāYbAbāž@AUāž@āAY | ŽĀ'āAbāž@A^ { āA
ā [ābŽ&āDĀNŸbYDAYāZAYŸŸ^ \ ābāÉPā \ āDA'ba'āAY | 'āŸb'^ā^aAbā'āAS^ā'Ÿ [A^@AYā [AUāž@Ab^AŽāāYāŽĀ'āA
ŽāžŸb@^ā'ŸĀāā^~'āāDĀ^@Ab^AŽ&~ā' [AŌPĀŠŽā^ \ @ŸŽāA^@AbāžĀ~ \ @~āāŽĀ^aA~@ ['āā'āb^AAbāžĀYāY'@ā^a
^bāž@āDA'ÉŽÉDAb^AYŸŸŽāā^@AYbbŽ&~bAb^AYŸŸŽāāAžāŽŸb@^ā'ŸA'āZāDA^@Ab^A'āābYāāÉ \ b'ā'] ŽĀ' &YāžÉY \ Z^A
@ŽŸ^@Z'āāAZŽ | ŸŽāDA { 'bā^ \ bA~@^~@Ÿ@AY \ bā^@'] Ÿb'^āAb^AZ^ā^A^ā@Ažā \ āŽĀŸ \ ā'āžāā~ \ @~āāŽĀ^a
bāžĀUā' | Ž@ā'b [É

Uāž@āāā^ \ āZAYŽAY { Y@ŽAbāYbAbāžĀUā' | Ž@ā'b [AYŸāā^bAā \ Y@YābŽZAbāžĀāžŸ \ @'b [AYāZA~@' | YŸ [A^aŌPĀ
ŠŽā^ \ @ŸŽāDAYāAbāž@A \ āZāA & Y [Aā^bAYā { Y [āAYŽĀŸ^ &~āžbŽā [A~@' | ŸbŽÉACE^@Až} Y &~āZĀ'āā \ YāŸĀ^aAYā
~Yāā { ^@ZĀ^@A^bāž@A &ŽŸāā^aAYŸŸŽāā^āAb^AYāā \ @ZĀY~@^~@ ŸbŽĀŸ^ā'ZŽāb'Yā'b [A^aUA' | Ž@ā'b [EA
@ŽāYbŽZĀ'āA^@ &Ÿb'^āAYāZĀ'āZāÉĀŌbAZ^āA^bAá \ Y@YābŽZĀ~@' | YŸ [A'āAYāāYŸāžāDAžā~ŽŸŸāā [A^@A
~Ž@ā^āYāA^@A \ āY { a \ āA \ āZĀ^aŌPĀŠŽā^ \ @ŸŽāÉPāžĀUā' | Ž@ā'b [A & Y [A & ^ā' b^aŌPĀŠŽā^ \ @ŸŽāAb^A
Žāā \ @ŽAbāYbAbāž [AY@ŽāāžŸ \ @ŽĀYāZĀŸ'āā \ āZĀ'āAY^āA^@ &'b [A { 'bābā'āŌPĀS^ā'Ÿ [AYāZĀ^bāž@A
Uā' | Ž@ā'b [Aá \ 'ZŽā'āžāÉPāžĀUā' | Ž@ā'b [DAb^AbāžĀž} bžābAYāā { ŽZĀY [AY~@'ŸŸŸāžĀY { DA@Žāž@ | ŽābāžĀ
@'āābAb^Až} Y &'āžDA \ āžDAYāZAZ'āŸā^āžĀYā [ANŸbYAb^A \ āZĀ^aAbāžĀUā' | Ž@ā'b [ĀŌPĀŠŽā^ \ @ŸŽāA^@AbāžĀ
~ \ @~āāžā^aAa \ @bāž@'āāAbāžĀāžYābāDAŸYāžb [DAZ'āŸ'~ā'āžDAāžŸ \ @'b [DA^@A~@^~@Ž@b [A@'āābAb^AYā [A^bāž@A
Uāž@DA~Ž@ā^āDA^@Ažāb' [ÉĀĽ.ā [ANŸbYAbāYbAbāžĀUā' | Ž@ā'b [AāYbāž@āAa^@Aā \ ŸāA~Ž@ &'āā'YāZĀ

- 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'^āāAYāZA~^āžŸ\ b'^āA \ 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'^āāBÉAŌāAbāžāž |žābA^aA@žāb@Ÿb'^āA^@A
ā \ ā~žāā'^āA^aAŌPA Šžā^\@ŸžāA~@'|'ážāžāDAYA@žYā^áYŸāžāžā^@bA { 'āāYžA&YžžAb^A
YŸŸ^& ^ZYbžAbāžAYŸYžž & ŸAŌPA Šžā^\@ŸžāāžžžāA^aAbāžAUāž@AZ \ @'āāAbāžA'ā |žāb'áYb'^āÉA
Uá |ž@ā'b[AāYāYb'^āāAY@žA' & ~^āžžAY[AbāžAY~~@^~@ŸbžAUá' |ž@ā'b[AY \ bā^@b[AYāZA&Y[A
'áŸā \ žžA@ž' & Ÿ \ āž & žābAb^AbāžAUá |ž@ā'b[Aa^@AbāžAŌPA Šžā^\@ŸžāDAžž@ |'ŸžāAYāZA~ž@ā^āžāA
ŸaY@āžā'áŸ \ @žžA'āAZžbžŸb'āāAYāZA~^@'|'āāAbāžA |'áYb'^āAYāA { žāAYāAa@^& AbāžA |'áYb'^āA
'bāžāāÉA Šž' & Ÿ \ āž & žābA & Y[A'áŸā \ žžAY^& ~žāāYb'^āAa^@AābYaaA { ^@aeAb' & 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^āā'ŸbA { 'bāA
bā'āA~^áŸ[É

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

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

pāžAYŸ'á'b[Ab^AY^āžŸbAYāZA~^āžžāā'āa^@ & Yb'^āAa^@AYZ & 'á'āb@Yb'|žAYāZAYŸYžž & ŸA~ \ @~^āžā'āAY@'b'ŸYāAb^A
bāžAUá |ž@ā'b[āA & 'āā'^āÉAŌāa^@ & Yb'^āAY^āžžŸbžžAYāZA~^āžžāžžA & Y[A'áŸā \ žžA~ž@ā^āYā'āa^@ & Yb'^āA
@žāY@Z'āāAāb \ žžābDAž & ~ā^ [žžāA^@AYá \ & 'āÉAUāžž@āA^~ž@Yb'āāA^@A \ b'á']'āāŌNUAŸ^& ~ \ b'āā@žā^\@ŸžāAY@žA
@žā~^āā'Ÿāžāa^@ & YāYá'āāAYāZA & Y'ábY'á'āāAbāžāžŸ \ @'b[A^aAbāžAZYbYDAŸ^& ~ \ b'āā@žā^\@ŸžāAYāZA

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

. ; I 541. (> * 1& ' 47&9.43

&I +SLARQML?J : LGR 7CQNMLQ@GJGRWĚACE \ āYb^'āYāA \ ā' bAāžYZāAY@žA@žā~^āā' YāžA^@A
'&~āž&žāb^'āāY~^@~@YbžA&YāYāž@YāDA^~ž@Yb^'āāDA~ā [ā' YYāDAYāZAbžYāā' YāY^'āb@^āāA^@A
YŸYžāāAb^DA \ āžA^aDAb@Yāā&'āā'^āA^aDAYāZAZ'ā~āYāA^aZYbYā'āAY^&~ā'YāYžA { 'bāAbā' āAS^ā' Y [ĚAbā' āA
@ž* \ 'ž&žābā' āžā~ž'Yāā [A'&~^@YābAa^@Abā^āžY^&~\ b^'āā@žā^ \ ŸžāAbāYbAā \ ~^@bA^@Aā^ābA
Y^'b'YŸāY \ ā' āžāāA \ āYb^'āāA^@ATžāā' b' | žAŸYbYĚ

' I 8CLQGRGTC) ?R?ĚAT^&žAž}Y&~āžāA^aTžāā' b' | žAŸYbYā' āYā \ žžIāā' Y^'āāžY \ @' b [A \ & Yž@āDA
Z@' | ž@A' YžāāžA \ & Yž@āDAY@žž' bAYY@Z^A^@A^bāž@Aa' āYā' YāAYŸY \ ābA \ & Yž@āDAŌNUAŌŃAā \ & Yž@āDA
~^@bžYbžžAāžYābāA' āa^@& Yb^'āāDA' āYā' YāZYbYDAžž' YŸY^'āYāA@žY^@ZāDA' ābžāžYb \ YāA~@~ž@b [A^@A
@žāžY@YāA@žY^@ZāDAZ^ā^@A~@^a' žžDA^@AYā [A' āa^@& Yb^'āAbāYbAY^ \ āZ@žā \ ābA' āAYA&Ybž@' YāA@' āāA^aA
'žžāb' b [AbāžAbDAYA | 'ā' Yb^'āA^aACEŌSSĽDAŌŌSSĽA^@AŌŌMĽDA^@A^bāž@ { 'āžāY@&AbāžAžā' b' & YbžA
a' āYā' YāYāZAbž~\ bYb^'āYāA' ābž@žābA^aAbāžAUā' | ž@ā' b [A' a \ āY \ bā^@'] žžAYŸYžāā' āA~ž@&' bžžDA
{ āžbāž@A' ābžāb^' āYāā [A^@A \ ā' ābžāb^' āYāĚ

(I 8CASP 8RMP?ECĚATžY \ @žAāb^@YāžA' āAY | Y'āY'āžA' āAUā' | ž@ā' b [A~@^ | 'žžāāžb { ^@āAYbbY'āžžA
āb^@YāžIāāžĚāĚDAĚREZ@' | žĀBĚAĽāāATžāā' b' | žAŸYbYā' āAbAYžAAb^@žžAž' bāž@A^āAbāžāžb { ^@āAYbbY'āžžA
āb^@YāžA^@A { 'bā' āA^bāž@AY \ bā^@'] žžA' āāb' b \ b' āYāžāž@ž@~@' āžā [ābž&āžĚāĚDAMYāāž@DAĽ.Z' @^āZYŸāDA
žbYĚBĚATb^@YāžA' āAYASNDāž' bāž@AUā' | ž@ā' b [A^@ { āžžA^@A~ž@ā' āYā' āA^āY^'āā' žž@žžAžY \ @žA
 \ āžāāAbāžāAY@ZAZ@' | žA' āA~@~ž@ā [AžāY@ [~bžžĚ

) I) MULJM?BGLE ?LB 9P?LQNMPRGLEĚATžāā' b' | žAŸYbYā&Y [Aā^bAYžAZ^ { āā^YžžAb^@A
b@Yāā~^@bžžA^āAYā [AS^@bYŸžATb^@YāžAŸNž' | YžAYāZAPžžYĚAbā' āAY~ā' žāAbAY^bāA' āĚYŸY&~\ āA
YāZAA^aEYŸY&~\ āAZ^ { āā^YZ' āāAYāZAb@Yāā~^@bYb^'āĚAĽāā^bžžA' āAbā' āAS^ā' Y [DAžžY \ @žāžb { ^@āAYbbY'āžžA
YbbY'āžžAāb^@YāžA' āA~@^ | 'žžAa^@Abā' āA~\ @~^āžĚATžāā' b' | žAŸYbYā&Y [AYžAZ^ { āā^YžžAYāžĚ^@A
b@Yāā~^@bžžA^āā [A { 'bāA~@^@A { @' bbžāY^'āāžābA^aAbāžAY~@~@YbžAÚ' YžAS@žā' žžābĚAbā' āAY^āāžābA
{ 'āA^āā [AYžAā^@YābžžA^āAYAbž&~^@Y@ [DAYāžĚY [ĚAYāžAYā' āĚ

* I : QC MD 2CBG? MP * OSgNKCLĚAUAž@āAY@žAb^AYŸYžāāUA' | ž@ā' b [A' āa^@& Yb^'āA^āA
UA' | ž@ā' b [ĚA^ { āžžA&žž' YA^@Až* \ '~&žābĚAĽāā' āa^@& Yb^'āāAb^@žžA^āAUā' | ž@ā' b [A^@ { āžžA
ž* \ '~&žābDA' āYā \ Z' āāAY \ bAā^bAā' &' bžžAb^ASNDāāž@ | ž@āDAYāZāāžb { ^@āAYbbY'āžžAāb^@YāžDA' āA
Y^'āā' žž@žžAbāžA~@~ž@b [A^AbāžAUā' | ž@ā' b [ĚAUāž@āAY@žAā^bAb^Aāb^@žDAY^& \ ā' YbžDAb^Yāā~^@bDA
^@A~@^YžāāUA' | ž@ā' b [A' āa^@& Yb^'āA^āA~ž@ā' āYāā [A^@ { āžžA&žž' YDAžž' | YžāDA^@AY^&~\ bžžā
{ 'bā \ bA~@^@A { @' bbžāAY~@^ | YāAa^@& AbāžAY~@~@YbžAÚ' YžAS@žā' žžābAYāZAbāžAY~@^ | YāA^AbāžA
~ž@ā^āYāAž* \ '~&žābAY [AŌāa^@& Yb^'āAbžYāā^ā [ATž@ | 'YžāAĀŌPTĚĀŌāa^@& Yb^'āA^āAUā' | ž@ā' b [A
^@ { āžžA~^@bYŸžAZž' | YžāA \ YāAYāAāYāāAZ@' | žāDAZ' āāDA^@AAY~b^~AY^&~\ bžžāA & \ ābAYžAāb^@žžA' āA
~ā [ā' Yāā [AāžY \ @žAā^Yb^'āāAYāZ & \ ābAā^AbAYžAb^Yāā~^@bžžA { 'bā \ bAžāY@ [~b^'āAbāžAYbY
 \ ā' āAUA' | ž@ā' b [AY~@^ | žžA^āb { Y@žAYāZAbžYāā' * \ žāĚ

+I * LAPWNRGMLI T^ab { Y@žDA~^ā' Y'žāDAYāZ~@^Yžž \ @žAa^@AžāY@ [~b^'āāATžāā' b' | žAŸYbYāY@žA
Y \ @žābā [AYž' āāAZž' | žā~žžAYāZAZž~ā^ [žžAY [AbāžAUā' | ž@ā' b [ĚAŸ \ žAb^AbāžAāY^~žA^Abā' āA { ^@āAY
YāZAbāžAYāYāā' āāāYb \ @žA^AbžYāā^ā^ā [A' ā | žāb^@ [DAbāžAZž~ā^ [&žābA^aAžāY@ [~b^'āā' āAYāA
^āā^' āāA~@^YžāāĚ

, i 4FGM 'PC?AF 3MRGDGA?RGML &ARi pãŽARá'^AM@ŽYŸaAQ^b'a'ŸYb'^ãAŁ.YbA@Ž* \ 'ŽãA~@^&~bA
ã^b'a'ŸYb'^ãAb^A'ãZ'|'Z\YããA {ã^ãŽA~Žã^ãYãA'ãa^@&Yb'^ãAãYãYŽãAŽ}~ãŽãA'aAbãŽA'ãY'ŽãbA
Ÿ^ãZããŽYZAb^Aa@Y\ZA^@A'Žãb'b [AbãŽãbÉAŁã [Aã^ãããAATŽãã'b'|ŽãŸYbYDAZ'ãYã^ã\@ŽãAATŽãã'b'|Žã
ŸYbYAb^A\ãY\bã^@']ŽãA'ãZ'|'Z\YããA^@Aã\ã~ŽYbŽãA&'ã\ãŽãA^aATŽãã'b'|ŽãŸYbYA&\ãbAYŽã
'&&ŽãYbŽã [A@Ž~^@bŽãAb^AbãŽãARaa'ŸŽã^aAbãŽãNÓRÉ

-i 'PC?AF MD RFGQ 5MJGAWi Ú'^ãYb'^ãA^aAbã'ãAS^ã'Ÿ [A { 'ããYŽã | Ž { ŽãYããYããŽ@'^ãAZ'ãY'~ã'ãY@ [A
^aaŽããŽãYãZA { 'ããYŽãYZZ@ŽããŽãAbã@'^ããAbãŽãY~@^@~@YbŽãÚ'ŸãS@Žã'ŽãbAYãZAbãŽãARaa'ŸŽã^aA
Ô\ &YãAŠŽã^@\@ŸŽãÉAÚ'^ãYb'^ããA^aAbã'ãAS^ã'Ÿ [A &Y [AãŽãYAb^AZ'ãY'~ã'ãY@ [AYŸb'^ãA\~Ab^AYãZA
'ãYã\Z'ããZ'ã&'ããYãDAŽ}~ãã'^ãDAYãZÉ^@AãŽãYãYŸb'^ããAN\@@ŽãbACE\ãYb'^ãYãAUã'ãã~@YŸb'ŸŽãã^@A
~@^ŸŽã\@ŽããããYããAYŽãZY~bŽãAb^AY^&~ã [A { 'bãAbã'ãAS^ã'Ÿ [É

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

âY&ŽËÿÿââ'ââDAÿŽâ'bbâ'ââDAbâ@ŽÿbŽâ'ââA|'ââŽâÿŽDAâbŽÿâ'ââA&^ââŽ[DAZZâb@^['ââA~^ââŽââ'^ââDA
'â^âYb'ââDA^@Aÿ^&&'bb'ââAâŽ}\YâA|'ââŽâÿŽËâŠŽâYb'ââââ'~A|'ââŽâÿŽAÿÿYâA^ÿÿ\@AÿŽb{ŽŽâAÿÿâ\YâA^@A
'âb'&YbŽA~Y@bâŽ@âA^aAbâŽAâY&ŽA^@A^~^â'â'ââŽ}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@ŽÿYâ^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&ŽââYâ'ââDAâ^ÿ'YâAâŽb{^@æ'ââDA
'ââbYâbA&ŽââYâ'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^&ŽââŽ}\YâAYZ|YâÿŽâDA@Ž*\ŽâbâAa^@AâŽ}\YâAaY|^@âDA

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

(?N?AGR W DMP (MLQCLR

'S ŌāYŸ~YŸ'bYb'^āā'āAZZ'a'āžžAYāYŸ'āā'āAYāAbYbžA'ā { ā YāYA~žāā^āā \ aa'Ÿžābā [AāYŸāābāžA
Ÿ'āā'b' | žAYŸ'ā'b [Ab^A@žYā']žAbāYbAbāžā'b \ Yb'^āā'āāž} \ YāDA^AŸYāā^bAY~žŸ'YbžA
Ā@Yb'^āYāā [AYāZ@žYā^āYŸā [BAbāžāYb \ žAYāžÉ^Až}bžābA^AbāYbāā'b \ Yb'^āÉ

(S N^āāžābAYŸāA^ā [AYžAá' | žāY [Abā^āžA { 'bāAYŸ~YŸ'b [Ab^AY^āāžābÉA P'ā^ā [^ \ āāž@A
bāYāÉHAZ^A^bāY | žAbāžAYŸ~YŸ'b [Ab^AY^āāžābAb^Aāž} \ YāAYŸb' | b [ÉACE^AYZ \ ābāDAŸY~YŸ'b [Ab^A
Ÿ'āāžābā'āA^āAYŸYāžAY [AYŸYāžAYā'āÉA PžābYāā [AZ'āYŸāžZA~žāā^āāYāZA~ā [ā'āYŸāā [A
'āYŸ~YŸ'bYbžZA~žāā^āā & Y [A^AbāY | žAbāžAYŸ~YŸ'b [Ab^A^ | žAY^āāžābÉARāžA & Y [AYžA
'āYŸ~YŸ'bYbžZāž & ~^@Y@'ā [AYāYA@žā \ ābA^aA & žābYāā āāžāāDA \ āŸ'āāY'^ \ āāžāāDA^AYāYA
@žā \ ābA^aAYāŸ'ā^ā^A^bāžAZ@ \ āY^āā \ & ~b'^āÉ

)S RāžA & Y [A^AbāžāYāžA'āāž} \ YāAYŸb' | b [A { 'bāAYābāž@A~žāā^āA { āžāāžAāā { āA^AāYāA
@žYā^āYŸāžAYŸ \ āžAb^AYž'ž | žAbāYbA~žāā^Ab^AYžA'āYŸ~YŸ'bYbžZA \ žAb^AYāŸ'ā^ā^A^bāž@A
Z@ \ āAY^āā \ & ~b'^āA^A^bāž@A@žYā^āāÉA bYæžāA'āAY^ābž} bDAā^ & žA'āžYŸb^āA^A~āā'YāžA
'āYŸ~YŸ'bYb'^āA & Y [A'āŸā \ žžDAY \ bAY@žāā^bāā' & 'bžAb^AbāžAāā { 'āāI \ & 'b'āāDAā \ @žZA
ā~žžYāDAžžŸ@žYāžZA & ^b^AAY^@ž'āYb'^āDA \ āŸ'āāY'^ \ āāžāāDAž@Yb'Yā^Až} bž & žAYžāY | '^DA
æā { āžžAžA^a~žāā^āāY^āā \ & ~b'^āDA^AYā^Ažāā^bāž | žāÉ

(MCPAGML

N^āāžābA { ā'Ÿā'āA^Yb'āžžAbā^ \ āābāžA \ āžA^aA@Y \ ZA^@A^@ŸžDA { āžbāž@AY [A~ā [ā'ŸYāAa^@ŸžDA
bā@žYbāDA'āb' & žYb'^āA^A^Y^@žŸ'^ā'ā'ā | YāžÉ

(I &NNJGA?@GJGRW

pā'āA~ā'Ÿ [AY~ā'žāAb^AYāāA^āāNY@^āāUā' | ž@'ā'b [Aāb \ žžābāÉA \ āāāb \ žžābāAY@žžāŸ' \ @YāžžAb^A
@ž~^@bAYāāžāžZA'ābž@~žāā^āYāA | '^žāŸYžA^āāžāāžāāYāA^āā^āAYāA~āā'ŸāžÉA@bž@~žāā^āYāA | '^žāŸYžA
^āāžāāžāA & Y [AYžA@ž~^@bžZA { āžbāž@Abāž [A^AYŸ \ @žZA^āAYŸ & ~ \ āDAYbAYUā' | ž@'ā'b [Aā~āā^āžZA
ž | žābDA^A^āAYŸ & ~ \ āā'āŸā \ ž'āāāb \ ž [AYŸ^AYZDA'ābž@āāā~āDAYāZA' & ž@'ā'āāž}~ž@žāŸāÉ

) I (MLDBGCLRG?JGRW ?LB 7CNMPRGLE

p^AbāžAž} bžābA~āā'ŸāžDAbāžAUA' | ž@'ā'b [A { 'āāA & Y'ābY'āAbāžAY^āā'žžāb'Yā'b [A^aYāā~Y@b'žāA'ā | ^ā | žžA'āA
YāāžāžZA'ābž@~žāā^āYāA | '^žāŸYžA^āāžāāžāāAN^āā'žžāb'Yā'b [DAā^ { ž | ž@DAYŸāā^bAYžA \ Y@YābžžžÉA
Uāžž@ARā'^āY { DA~žāā^āāA { ā^Aāā { AbāYbAYāāžA^ā [AāYāYžžāAY^ & 'bbžZA & \ ābA@ž~^@bAbāYbA
'āA^ & Yb'^āAb^AāY { Ažāa^@Ÿž & žābÉACE^AbāYbA@žYā^āDAYāāUā' | ž@'ā'b [Až & ~ā^ [žžāāž} Ÿā \ ž'āā'ŸžāāžZA
~^@āžāā'^āYāāA^ & AbāžAUA' | ž@'ā'b [AN^ \ āāž'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^ābYŸbA^āāANŸ@^āāS^ā'ŸžANž~Y@b & žābA^@AbāžAUA' | ž@'ā'b [AŌž'āābāS^ā'ŸžANž~Y@b & žābA { āžāYāA
YāāžāYb'^āA^aAYā'ābž@~žāā^āYāA | '^žāŸYžA^āāžāāžāāAYžžāA & YžžÉ

Tb \ žžābāA { ā^Až}~ž@žāŸžA'ābž@~žāā^āYāA | '^žāŸYžAYŸāA & žžbA { 'bābāžAS^ā@Y & AN^@Z'āYb^@Aa^@A
bāžAUA'^āžāŸžASž | žāb'^āAYāZā \ Ÿb'^āANžābž@Ab^AZ'āY \ āāAYāā'b \ Yb'^āAY^āa'žžāb'Yāā [DA { ā'ŸāA & žYāāA
bāYbAbāžAUA' | ž@'ā'b [A { 'āāā^bA~ \ ā \ žAYāā'ā | žāb'āYb'^āA^AbāžAYŸā'āA^AY^āa'žžāb'Yāā'āA^ & Yb'^āA
āāYžžA { 'bāAbāžAUSLNAŸ^@Z'āYb^@A'AbāžAāb \ žžābAZ'žāā^bA { 'āAb^AZ^āā^ÉAbāžAUSLNA
Ÿ^@Z'āYb^@A'āā^bAYāžāYāā [A~@' | 'āžāžžAY^āa'ZYābDA^āAbāž [AY@žAāb'āā@ž* \ 'žžAb^A@ž~^@bAYŸā'Ÿāā^É
'žžāb'ā'āā'āA^ & Yb'^āAb^AāY { Ažāa^@Ÿž & žābAYāZA & YæžA~ž@'^Z'ŸAā^āÉ'žžāb'ā'āāā \ & & Y@žāA^AbāžA
Ÿ@ & žāA^ŸŸ \ @āā^āA^ŸY & ~ \ āAb^AbāžAb' bāžAUAŸ^@Z'āYb^@É

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ŌāZ' | ž \ YāāA@žŸ'~žābāA^AbāžAYžāY | '^@AYāžÉ^@Abā^āžAYāā'āb'āāA@žŸ'~žābāBA { ā^A@ž~^@bA
'āŸžžābāA^ā'ābž@~žāā^āYāA | '^āžāŸžA { ā'ŸāA^ŸŸ \ @A { ā'āžāžÉāāžA'āAžāāYāžZA'ā \ āžž'YāžA
Z@'āæ'āāA^@āā'Ÿ' bAZ@ \ ā \ āžA { 'āāā^bAYžAāžAZā~āā'ŸāžA^@A | '^āYb'āāAbāžA \ ā | ž@'ā'b [AYāŸ'ā^āA
YāžÉ^@AZ@ \ āA~ā'Ÿ [É

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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\ZŽāAYā [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^āYŽāYāaA^aAbāYbA'āZ' | Z\YāĒA
ŠŽbYā'Yb'^āAYYāAYŽA | Ž@ŸYāDA { @'bbŽāDAā@Y~ā'ŸDAŽāŽŸb@^ā'ŸDA^@A~ā [ā ŸYāĒAĒ ŸbāA^aA@ŽbYā'Yb'^āAYYāAYŽAY [A
bāŽ&āŽā | ŽāDAYY\āŽAa^@AZ'āŸ'~ā'āY@ [AYŸb'^āĒAN^āŸŽ@āāA^aA@ŽbYā'Yb'^āAYYāAYŽA@Ž~^@bŽZAb^AbāŽAb'bāŽAŌŪA
N^^@Z'āYb^@DAŌNUSŃDAbāŽAŪSĽNAN^^@Z'āYb^@DA^@AbāŽAŃŽYāA^aATb\ZŽābāĒ

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Ēā [Aāb\ZŽābAa^@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^@āZāZ@ŽA**ābb~ĵĒāb'ŽāĒāY\ĒZZ\ĒZZYāAaāb\ZŽābāĒ~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 | Žāā'b [AYŸA~\@ā\ZāZ'āŸ'~ā'āY@ [AYŸb'^āĒ

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YÉA pŽääAYAb@ \ äbžžA~ž@ã^äAYÝ^ \ bAbâžAYÿbA^aA' äbž@~ž@ã^äYäA J ' ^äžäYžÉ
 YÉA S@žžä@ | žAYä [Až | žžäYžA^aAbâžAYÿbEÄNž~žžä' äá^äAbâžAb [~žA^aA
 ' äbž@~ž@ã^äYäA | ^äžäYžA^aažžäžDAž | žžäYžA & Y [A' äYä \ žžDAY \ bA' äAä^bAä' & 'bžžA
 b^DAbž} bA & žžäYäžäDA | ^YžA & Y äA & žžäYäžäDAÝ^Z' ä [Aä \ žžDAžbYÉASä [ä ÝYäA
 ž | žžäYžA \ YäAYäYä^bä' ääDAYžžAäžžbäDAžbYÉäã^ \ äZAYžA~äYÝžžA' äAYA
 äžY \ @žAY@žYÉ
 YÉA N^äbYÿbAbâžAÖ^äãANY@@^ääAS^ä' YžANž~Y@b & žäbAYbADÉHEAÉ Î | EÉÐEFAYäZÉ^@A
 bāžAUä | ž@ä' b [AÖž' ääbäAS^ä' YžANž~Y@b & žäbAYbADÉHE Î | EÉÐÉ | EÉAYäZÉ^@AbāžA
 ÖNUÐFEä^ \ @AN@' ä' äAÖ^bä' äžAYbADÉHEÉ Î | ENŁ ÖÖÉAÖNUSNÄYäA~@^ | žžA
 ' & žžYbžA@žž@Yä' äa^@ & Yb' äDAÝÿžžäAb^AbâžA \ ä' | žžä' b [AY^ \ ääžä^@A^äEA
 ÝYäDA' ä | žäb' äYb' | žAYä' äbYäYžDAYäZAYä' äbYäYžA { 'bäAä^b' a [' ääAä^ÿYäAäY { A
 žäa^@Yž & žäbAYäžäY žžäEAbāžAÖNUÐFEä^ \ @Aä^bä' äžAYäA~@^ | žžA' & žžYbžA
 ä \ ~^@bAYäZAY@' ä' äA' äbž@ | žäb' äDAžž \ ÝYbžA@žžY ~ žäbäA^AbâžAYžäY | ^@A
 YäZÉ^@Aä \ ~^@b | žA^bāž@äAYÝ^ \ bA@ž~^@b' äáA^~b' ääAYäZA & žžYÿbAY@žDAYäZA
 Ý^@Z' äYbžAYäA' äE~žžä^äAYZ | ^ÝYÝ [A@žä~^ääžA { äžäAY~@^~@YbžÉ
 ZÉA TžžäA' & žžYbžA & žžYÿAYbžäb' 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'ĤāDAŸYĤ&~Yā'ĤābAbĤāāZāāā~'bYāYāZĒ^@AbĀā~ŽYæA { 'bāāY { A
Zāā^ŸZ&ŽābDA@Zā\@ŸZāĒ'āa^@&Yb'ĤāDAŸZā@ZāZ@YāāĒA T b\ZŽābāYŸāAYŸZāābāZāZā
āZ@ | ŸZāY [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~YbZāN'āAbāZāAY&ZāŸYāāZāBAYāZĒ^@A@Zā'Zā'āAbāZāY&Zā\ā | Ž@ā'b [A@Zā'ZāYŹā
^@AY@Zā'āYā^āZā~@^} ' & 'b [Ab^A^āZāYā^bāZ@ĀĀ'ĒZĒāāY@ZābāZāAY&ZāYbāZāb'ŸAaYŸ'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&ŽābāZāBĒ

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bāZā\ā | Ž@ā'b [AŽāŸ^\@YāZāAbāāZā { ā^AāY | ŽāZ}~Ž@ZāŸZā'ābZ@~Ž@ā'āYāA | 'ĤāZāŸZāb^A@Z~^@bAbāZāZā
'āY'ZŽābāAb^AYĤābĀŌ^āāNY@^āāS^ā'ŸZāNŹ~Y@b&ŽābAYāZāA^ŸYāAāY { AŽāā^ŸZ&ŽābĒAŠZ'~ŽābāA^aAbāZā
ŸZāY | 'Ĥ@āY | ŽābāZā@'āābDA^ { Ž | Ž@DAā^Ab^A~@^ | 'ZŽAYābYbZ&ŽābAb^A'Z'āZ@AŌNUSŸA^@āā^ŸYāAāY { A
Zāā^ŸZ&ŽābĒ

Ľā [Aāb\ZŽābA { ā^A { 'āāZāAb^A@ZŸZ' | Žā&^@Zā'āa^@&Yb'ĤāA^āA@Z~^@b'āāA~@^ŸZāāZāDAŸāZĒ^@A^ŸYb'Yā
@Zā^\@ŸZĒ@ZāZ@Yāā'āa^@&Yb'ĤāAY@ZāZāŸ^\@YāZŽAb^A āZĀUSĽNĒUSĽNAŸYāAYāā^A~@^ | 'ZŽAbāZā@ZŸ'~ŽābA^a
bāZāYŹāY | 'Ĥ@A { 'bāAYāAYZ | ^ŸYbZābā^\āā^\bAbāZāZāb'@ZāZ~^@b'āāA~@^ŸZāāĒA bāZĀUSĽNAS@'ā@Y&A
N^@Z'āYb^@AYŸYāYŸZāZŸYāZŽAYbĀĀĒĒHBAĒĪ I EDĒ I GA^@Abā@^ĤāābāZĀONUADFEā^\@Aā^bā'āZAYbĀĀĒĒHBAĒĪ I EA
NĽŌŌĀĀDDGGBĒ

Ēē'āāAYāZ~^@bAZāA^aAbāZāŸYāY@'ā [A^Ÿ'āYbZābāZā@ZŸ'~ŽābA^aAbāZāŸYāY | 'Ĥ@Ab^A~\@ā\ZāZ'āY'~ā'āY@ [A^@A
Ÿ@&'āYāYāY@āZāĒAĽābā^\āābāZāA^ŸYāA~^ā'ŸZāYāZā\ā | Ž@ā'b [A^āā'ŸYāāā'āYā\Z'āāHŌNUSNBAāY | Žā
Yāā^Ÿ'ā'āYb'ĤāAb^A~^@bZŸYbAbāZāŸY&&\ā'b [Aa^@&AbāāZā { ā^AāY | ŽāZāāYāZāZā'āY@&ZāāA^A | 'ĤāZāŸZā
'āYā\Z'āāA@ZāYb'Ĥāāā~A | 'ĤāZāŸZāAbYāāē'āāDAāZ} \YāāY@Yāā&ŽābDAāZ} \YāAYāāY\ābDAā^āēYāāZāā\Yāā
āZ} \YāYā^ābYŸbDAŸZāZāZ} \YāāZ}~ā^bYb'ĤāDAbāZ [AY@ZāYāā^A&'āZā\ā^aAbāZāāZāZāAYāZāZā'@Zā^aAbāZā
@ZŸ'~ŽābA^aAbāZāŸYāY | 'Ĥ@A { āZāAYZZ@Zāā'āāYā [AYāāZāZāA^āāZāāZāĒA bāZāZāY [AYZā'āābYāŸZāā'āā
{ ā'ŸAbāZāUā | Ž@ā'b [AYāZĒ^@AāY { AŽāā^ŸZ&ŽābAYZ'Zā~\@ā\ZāŸāYāZāā { 'bā^\bAbāZāŸYĤ~Z@Yb'Ĥāā
^aAbāZā@ZŸ'~ŽābA^aAbāZāŸYāY | 'Ĥ@Ē

bāZā@ZŸ'~ŽābA^aAbāZāŸYāY | 'Ĥ@'āā { ŽāŸ^&Žāb^AāY | ŽāYA~Z@ā^āA^aAā'āēāZ@AYā^ā'āā'āYā\Z'āāA
bāZāS@'ā@Y&AN^@Z'āYb^@Aa@^&AbāZāU'ĤāZāŸZāS@Z | Žāb'ĤāAYāZāĽYb'ĤāANZābZ@A { 'bāAbāZ&A { āZāā
&ZŽb'āāA { 'bāAYāA^āā'ŸZ@Ab^Aa'āZāYA@Z~^@bĒAĽZ'ā'āYāā [DAbāZāNāZ | ŽāYāZāSŸ~ZAN@'ā'āANZābZāAāYā
YĀDFEā^\@AēYŸZēb^EēYŸZāĽZ | ^ŸYŸ [A~@^ā@Y&Ab^A~@^ | 'ZŽā\~^@bAYāZā'āa^@&Yb'ĤāAb^A bāZā
@ZŸ'~ŽābA^aAbāZāŸYāY | 'Ĥ@AYbAbāZā~^ā'ŸZāZ~Y@b&ŽābAāA^ŸYāA&\ā'Ÿ~ā'Yā'b [AYāZĒ^@AŌNUSŸNĒA bāZā
@ZŸ'~ŽābA^aAbāZāŸYāY | 'Ĥ@AYŸYāAYŸŸZāāYZ | ^ŸYŸ [A~@^ā@Y&āAbā@^ĤāāUSĽN'āADFEā^\@Aā^bā'āZā
YbĀĀĒĒHBAĒĪ I ENĽŌŌĀĀDDGGBĒ

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

bāZā@ZŸ'~ŽābA^aAbāZāŸYāY | 'Ĥ@'āāāb@'āāā [AZāŸ^\@YāZŽAb^Aā'āZāYA@Z~^@bA { 'bāAŌNUSŸNDA
{ ā^A { 'āāYĤāZ\ŸbAYā'ā | Žāb'āYb'ĤāĒAŌbā'ābāZāāZāZ@YāA~@YŸb'ŸZāA^aŌNUSNAb^A@Z~^@bA
YāāZāYb'ĤāāA^a'ābZ@~Z@ā'āYāA | 'ĤāZāŸZāb^AAbāZāUā | Ž@ā'b [AŌZ'āābāS^ā'ŸZā
NŹ~Y@b&ŽābĒAŠZ'~^@bāAY@ZāYāā^A^@ { Y@ZŽAb^AbāZāNŸYāA^aTb\ZŽābāRaa'ŸZāYāZābāZā
b'āZāŌŪAN^@Z'āYb^@A\~^āA@ZŸZ'~bĒ

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N@&'āYāYāY@āZāH&Y [AYZā~\@ā\ZŽAYābZ@Aa'ā'āāYāā'ā'b'YāA@Z~^@bA { 'bāUŌSŸNĒAŌ^āāA
NY@^āāS^ā'ŸZāNŹ~Y@b&ŽābAYāZĒ^@AYāAYZ | ^ŸYbZā&Y [AYŸŸ^&~Yā [AbāZā@ZŸ'~ŽābA^a
bāZāŸZāY | 'Ĥ@'āā'ā'āāAY@Z~^@bAYbAUŌSŸNĒAAbāZā@ZŸ'~ŽābA^aAbāZāŸYāY | 'Ĥ@'āā
'ābZ@ZābZā'āY^ĤāāZā'āāZāZ@ | ŸZāDAēāZā { 'āāYZāZāZ@ZŽAb^AbāZāŌ^āāNY@^āā
Uā | Ž@ā'b [AN^ĤāāZā'āāANZābZ@ĀĀĒĒHBAĒĪ I EFDĪ €BDANāZ | ŽāYāZāSŸ~ZAN@'ā'āANZābZ@A
ĀĒĒHBAĒĪ EĒĒĪ EĒBDAYāZĒ^@AN^&Žāb'ŸAŪ'ĤāZāŸZāYāZāNā'āZāĽZ | ^ŸYŸ [ANZābZ@ĀĀĒĒHBAĒĪ EĒA
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 Ÿā'āŸā \žžāA@žāYb'^āāā'~A
|^āžāŸžDAābYāæ'āāDAāž}\YāāY@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-ĪĒĒā bžāĒāŸ\Ēžž\ĒžžYā^aāb\žžābāĒ-ŸāžāĒŸ^A&& \ā'b[ĒA**
ābYāZY@ZāĒŸ^āZ\ŸbĒā[ābž&ĀĪ ^|^āæ@^ā'āā' āžA^Ÿ\&'bžA bž@Ēbāb~ŸžAEŸb'b~Ÿb'b~žŸ'~āā'

8RSBCLR 7GEFRQ% 9FC 7CQNMLBCLR

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

ÉÉA PāŽāāb \ ZžābA'āŽāb'bažžAb^AYžāA' | ŽāAYāž } ~āYāYb'^āA^aAbāŽāY^āZ \ Ÿbāā [ābž & AYāZAbāžAYāY@āžāāBÉ

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

€ÉA PāŽāāb \ ZžābA'āŽāb'bažžAb^AbāžA \ āžA^aAYāāY | Y'āYŸāž'ābž@āYāYāZāž } bžāYāā \ ~-^@bAāž@ | ŸžāA'āA
žžY'āāA { 'bāAbāžAYābž@ & YbA^aAbāžA'āY'žžābÉ

FÉA PāŽāāb \ ZžābA'āŽāb'bažžAb^A^YāžžAb^AYā & žž & Yž@A^aAYATb \ ZžābAN^āZ \ ŸbAM^Y@Zāa^@A@žYā'āāA^a
^aa'ŸYā^@A~ž@ā^āYāŸ^āā'ŸbA^aA'ābž@žābÉ

GÉA PāŽāāb \ ZžābA'āŽāb'bažžAb^AAY | ŽAYāYz | 'ā^@A^aA'āāžž@AYā^ā'āāAYŸY^ & ~Yā [Aāž@Éā' & A
bā^ \ āā^ \ bAbāžAY^āZ \ ŸbA~@^Yžāā'āYā \ Z'āāAYā [A'ā'YāA & žžb'āāAY^āāžž@žāYžDAbāžA
āžY@'āāAYāZ~^ābēāžY@'āāA & žžb'āāÉ

HÉA PāŽāāb \ ZžābA'āŽāb'bažžAb^AYžA~@žāžābAbā^ \ āā^ \ bAbāžāžY@'āāDāY \ bAā^bAZ \ @'āāAbāžāžž@'Ÿž@Yb'^āā
^aAbāžATb \ ZžābAN^āZ \ ŸbAŁZ & 'ā'āb@Yb^@ÉM^Y@žÉ

IÉA PāŽāāb \ ZžābA'āŽāb'bažžAb^Aāā^ { AYāā'āa^@ & Yb'^āA~@žāžābžžAYāY'āābāā' & ēāž@AYāZAb^A | ž { A~ž@b'āžāb
& Ybž@YāāA \ ~-^@b'āāAbāžAYāžAYāY'āābāā' & ēāž@É

ÍÉA PāŽāāb \ ZžābA'āŽāb'bažžAb^A~@žāžāb~ž@b'āžāb'āa^@ & Yb'^āAYāZAbāžA'āa^@ & Yb'^āA^aA { 'bāžāāžāD
ž } Ÿā \ Z'āāAYāY@YŸbž@A { 'bāžāāžāDAb^Aā \ ŸābYāb'Ybžāā'āēāž@AYāžAYāZAb^A@žā~^āZAb^AbāžAYāY@āžāA
YāY'āābāā' & ēāž@ÉA Pā'āA'āYā \ ZžāA~@^~^ā'āāA* \ žāb'^āāAb^AYžAYāžžA^aAbāžA@žžY'~žābA^aAbāžA
YžāY | ^@AYāžÉ^@A { 'bāžāāžāÉ

ĪÉA PāŽāāb \ ZžābA'āŽāb'bažžAb^Aa@žžž^ & Aa^& AāY | 'āā'@žžž | YābA~ž@ā^āYāā'āb^@ [AZ'āY \ āāžžA^@
Ÿ^āāžž@žžZ \ @'āāAbāžAY^āZ \ ŸbA~@^YžāāēāA PāžATb \ ZžābAN^āZ \ ŸbAŁZ & 'ā'āb@Yb^@A { 'āāZžž@ & 'āžA
@žāž | YāYžÉB

ĒÉÉA PāŽāāb \ ZžābA'āŽāb'bažžAb^A@žž & Y'āāā'āžābāā'ÉžÉDAā^bAb^Aā' | žā'āa^@ & Yb'^āAYāY'āābāā' & ēāž@āžābB' \ b
& \ ābAYžA'āa^@ & žžAbāYbAbāžAYāžA { 'āāAYžAZžž'žžA^āAbāžA'āa^@ & Yb'^āA~@žāžābžžÉ

ÈÉÉA PāŽāāb \ ZžābA'āŽāb'bažžAb^A { 'bbžāAZ^Y \ & žābYb'^āA^aAbāžA'ābY^ & žA^aAbāžAY^āZ \ ŸbāžY@'āāÉ

ÈĐÉA PāŽāāb \ ZžābA'āŽāb'bažžAb^A & YāžžAYā { @'bbžāAY~žYāA^aAbāžA Z'āY'~ā'āY@ [AZžž'ā'āA { 'bā'āA' | žAĀGB
Y \ ā'āžāāZAY [āA^aAbāžAZYbžA^aAā^b'a'ŸYb'^āA^aAbāYbAZžž'ā'āēAUA' | žžāb [AZ'āY'~ā'āY@ [AYŸb'^āāAY@žA
Y~žYāžžAb^AbāžANžYāA^aTb \ ZžābāÉ

PāžA@žžY'~žābA^aAbāžAYžāY | ^@AYāZAbāžA@žā~^āžžābāāb \ ZžābāāYāāAYžA'āa^@ & žžDA'āA { @'b'āāDA^aAbāžA
a^āā^ { 'āāĪ

M bāžA^ \ bY^ & žA^aAbāžAY^āZ \ ŸbāžžY@'āāĪ

M bāžA~@^Yžž \ @žžAa^@AbāžAY~žYāāA~@^YžžāāĪ

M Yā [AYāYāāžA'āAbāžA@žā \ ābāAbāYbA^YŸ \ @āA~@'^@Ab^AbāžAb' & žAbāžA@žā \ ābāAYžžY^ & žA'āYāĪ

M { āžāAbāžA@žā \ ābāAYžžY^ & žA'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@' āābā^A@ž | ž { Aāb \ žžābA & 'āý^āž \ ýbābāYbA^ýý \ @āā^āāýý & ~ \ āā { āžāā
ā \ ýāāýžāý | ^@A@žāžāýbāā \ ~^āābāžā' ābžā' b [A^āābāžāUā' | žā'ā'b [ÉA T b \ žžābāY@žāž & 'āžžābāYbābāž [A
āž@ | žAYāA@ž~@žāžābYb' | žāā^āA^āāNY@^āāUā' | žā'ā'b [AYāZAY^bā~^ā'b' | žAYāZā' āý~@^~@Ybžā
ýžāý | ^@AYāāžýbābāžāUā' | žā'ā'b [āā' & YāžAYāZā@ž~ \ bYb' ^āÉA T b \ žžābāY@žāžāý^ \ @Yāžžāb^āýžā' ā | ^ā | žžā
'āābāž' @AY^ & & \ ā'b [A^ā~^ā'b' | žā { Y [āDAā \ ýāYāY^ & & \ ā'b [Aāž@ | ýžāYāZā^āýYāāā^ | žā'ā & žābÉA pāžā
Uā' | žā'ā'b [AZžā' @žābā^āY | žāāb \ žžābāYýbYāY^bāA@žā~^āā' ýāžāYāZā & Yb \ @žā@ž~@žāžābYb' | žāÉ

ŌāAbāžāYāZā^āā' āý~@^~@Ybžāýžāý | ^@A^āāýý~ \ ādābāžāNžYā^āA T b \ žžābāA^@AZžā' āāžžā
'ā | žāb' āýbžābāžāžāýāý@āžāYāZā & Y [A & Yāžāžāžā@YāāAb^Abāžā T b \ žžābāN^āž \ ýbA T [ābž & É
Ā T b \ žžābāA^@^āYā'] Yb' ^āāāā \ āžā@žā~^āā' ýāžāā^@A | ^āYb' āābāžāžā@žā \ āYb' ^āāā { āāýžāā \ ýāžýbābā
bāžāāY & žāāýāýb' ^āāā' & ~^āžžāā^@A | ^āYb' ^āābāYbA^ýý \ @A^āýý & ~ \ āBÉ

Łāāā^āYāāāb \ žžābāA & ^ | žā'āb^ābāž' @Aāž { A@žā' žžāýžāDābāž [AY@žāžāý^ \ @Yāžžāb^āžž | žā^~āYā@Y~^~@bā
{ 'bābāž' @Aāž { Aāž' āāý^ ^āÉA U~^āāY@^ | YāDAāb \ žžābāāā^ \ āZā' āb@^Z \ ýžābāž & āžā | žāDāž } ýāYāāžā
bžāž~^āāžÉýžāā~^āāžāā \ & ýž@āDAYāZā & žžāA { 'bābāž' @AY^ & & \ ā'b [A~žž@āā^āYāý^@Z' YāýYā' āā^ābāYbā
bāž [AYýā' žžāb' a [A { 'bābāž' @Aāž { Aāž' āāý^ ^āYāāYýžāYāZā~žā' āYā' b' žāA@Ybāž@AbāYā & žžā [AYāYā
YZZ@žāÉ

8RSBCLR (MLBSAR *VNCAR?RGMLQ

ŁāāābYbžžāYý^ | žDAāb \ žžābāY@žāž' ~žýbžžāb^āžž & ^āāb@Ybžā@žā~žýbāā^@AYāā & ž & ýž@āā^ābāžā
ā^ýýāāý^ & & \ ā'b [A@žāY@žāžāā^ābāž' @A~āYýžā^āA@žā' žžāýžÉAÉY'ā \ @žāb^āYžāž@žāb^ābāžāā^ { 'āā
ā \ žžā' āžāYýā@žā \ ābā' āAZ' āý'~ā'āY@ [AYýb' ^āÉ
ÉĀTā^ { A@žā~žýbāā^@AbāžāY@žYā { āž@žā [^ \ āā' | žÉA T' āāā^āZ' āžā~žýbā' āýā \ žžDāý \ bAY@žāā^bāā' & 'bžž
b^āā' bbž@' āāīāā' bž@' āāīāžžāb@ \ ýb' ^āā^āā~@^~ž@b [īAb@žā~Yāā' āāīā~ \ ýā' ýā \ @' āYb' ^āīāā \ ž' b [īā
'āā \ āb' āāYāā \ YāžīAYāZā' āāžāYā~Y@æ' āāÉ
ĐĒAR~ž@Ybžāžāžýb@^ā' ýāžž' ýžāāābž@žāāDāb | āāžbýÉBAYbA@žYā^āYýāžāž | žāāžā~žý' Yāā [āYbžāYb
ā' āābAYāžžY@ā [A' ābāžā & ^@' āāÉ
€ĒA P Y' ābY' āYāā^@žž@ [A@žā' žžāýžÉA@ | žžāýžā^āAYAZ' ā^@žž@ā [A@žā' žžāýžāYýā' āýā \ žžābāž
ā^āā { 'āāīāā^ \ āžā~Y@b' žāīā | ^āYb' ^āā^āāYāý^ā^āYāZāZ@ \ āāY { āīā~ \ ýā' ýā' āb^ } ýýb' ^āīā
ž' ýžāā | žāā' āžīāāY@Yāā & žābīā^@Abāž@AZ' āžāY@Zāā^@Abāžā' 'āābāā^ābāž@āÉ
FĒARā' ^āY { A~@^ā' ý' bāā~žāYāý^ā^āY^ābY' āž@ā' āā~ \ ýā' ýā~āYýžāÉAS \ ýā' ýā~āYýžāY@žābāāž
{ ā' ýāYā [^āžāYýāžābž@A@žžā [AYāZā' āýā \ žžāā' žž { YāāDāāb@žžbāDāb@žžāY { āāDāā^ & žā
^ \ bž^ ^@AY@žYā^āY~Y@b & žābAY^ & ~āž } žāDāYāZā' 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 \ ZŽābāA'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'āāAY \ ā'āŽāāŽāDAYā \ @YāŽāDAYāZāYāZā^@ZāDAYāA^āāYá^@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^āAYŸY & ~ \ āA & Y'āY^ } a'āAbāŽANĪÉAÓÉA
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 @SQGLCQQi 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'ááAÁk \ } '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@^ & ÁÉÉÉÁEÁFÉÉÉ
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 { 'bAbáŽáŽá } 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'áAbáŽAYb@ \ & A { 'áz^ { AYŸáŽáZY@Aá^ŸYbŽZA'áAbáŽA
RTŁÉ

' & 33 * 78

ÉÉA MYááŽ@áA & Y [A^áá [AYŽAá \ ááA^áAbáŽA { YááA^AbáŽAŁb@ \ & AYŸ@^ááAa@^ & AbáŽA { 'áz^ { áA^aAbáŽ
ŸNÉAÓÉAÓ^ & ŸY@Z^ATb \ ŽŽábANžábŽ@AYáZAa^@A^ & AbáŽAá^@'] ^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 { ŽŽæÉAbáŽ [A { 'ááAYŽA@Ž & ^ | ŽZAYabŽ@AáŽ | ŽáAZY [áA
^@Aa^áá^ { 'ááAbáŽAZY [A^AYáAYZ | Ž@b'áŽZAŽ | ŽábÉ
ÉÉA MYááŽ@áA & Y [Aá^bAŽ'] ŽŽZAbá@ŽŽAÁÉBAAŽŽbA { 'ŽZAY [Aá'] ÁÁHBAAŽŽbAá^ááA'ááA'] ŽAYáZAáá^ \ áZAYŽA
á \ ááAYbAYááŽ'ááAbA^aAYbAáŽŸábAŽ'ááAbAŽŽbAa@^ & AbáŽAáá^@É
FÉA O'ŸŽ~b'ááA & Y [AYŽA & YŽŽA'áAbáŽAá'] ŽDAá^ŸYb'áAYáZAáYáá'ááAZ \ @Yb^áA^aAá'ááAa^@Aá~ŽŸYáA
ŸY&~\áŽ | ŽábAÁŽÉáÉAÓ^ & ŽŸ^ & 'ááÉACEY & á [A ŸŽæŽáZDAÓ@ŽŽæA ŸŽæDAŽbŸÉBA { '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 ŁááAYŸááŽ@áAY@ŽAY~@^ | ŽZAYáZAábY & ~ŽŽAa^@AY~@^ | YáDA'áŸ'á \ Z'ááAYa@Ž & ^ | YáZAYbŽDAŸ [AbáŽA
RTŁAÁá^ŸYbŽZA'áAT \ b'ŽAĐÉÉA^aAbáŽAŸNÉAÓÉAÓ^ & ŸY@Z^ATb \ ŽŽábANžábŽ@AYŸ' | 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^áAYáŽ | ŽábA^@A & ŽŽb'ááÉ
ĐÉA NáYáæ'ááAÁá^ \ áZAYŽA^áAbáŽAá'ŽŽ { YáæA^áá [AYáZAá^bA^áAYá [AY' \ 'áZ'áááA^@Ab@YááAYŸááÉ
ÉÉA Ó@^ \ ~áA & \ ábA~@^ | 'ŽŽAbáŽ'@A^ { 'áAYáYáæÉ
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 { 'bAbáŽáŽá'@ŽŽAbŽ' } bDAYáZAá^ŸYb^ááAYbbYŸáŽZDA

* 3+47 (* 2 * 39

ÉÁ pāŽARTŁAābYaaA { 'āāA & ^ā'b^@AYāZA & Y'ābY'āAbāŽAY \ āāŽb'āAY^Y@ZāDAZ^@āDAYāZA { 'āZ^ { āā'āAbāŽA
 Tb \ ŽŽābNŽābŽ@AYāZAYāA^aaAZybŽZA^@A \ āY~@^ | ŽŽAāā'Ž@āA^@AYāāāŽ@āH^āA YA { ŽŽāā [AYYā'āÉ
 ĐÉÁ pāŽARTŁAābYaaA { 'āāA & ^ā'b^@AYāZA & Y'ābY'āAbāŽAY \ āāŽb'āAY^Y@ZāDAZ^@āDAYāZA { 'āZ^ { āA^aAbāŽA
 ŃÉÁŌÉÁŌ^ & Y@Z^ATb \ ŽŽābNŽābŽ@A^āAY'É { ŽŽāā [AYYā'āÉ
 €ÉÁ pāŽAŁ \ } 'ā'Y@ [ATŽ@ | Y'žāAYāZĀŌ^ \ āžæŽŽ~'āāAZŽ~Y@b & ŽābāA { 'āāA & ^ā'b^@A \ āY \ bā^@'] ŽZA
 ~āb'āāāA'āAYZ & 'ā'āb@Yb' | ŽY^ & & ^āAY' \ 'āZ'āāāZ} YŽ~bA { āZ@ŽAā^bŽZAY' | ŽÉ
 FÉÁ ĆEY' \ ab [DAābYaaDAYāZāāb \ ŽŽābāY@ŽāŽāY' \ @YāŽZAb^AbYæŽAZ^ { āZybŽZāā' Ž'āAYāZAY' @'āā
 \ āY~@^ | ŽZA^@A * \ Žāb'āāY'āZāā' Ž'āAb^AbāŽAYbbŽāb'āā^AbāāŽARTŁAābYaaAYāāāŽŽŽŽÉAbāŽA^aa'YŽA
 ābYaaA { 'āāA^āā^ { A \ ~A { 'bāAYā [AāYāYb'āāābāYbAY@ŽāāŽŽŽŽZāA^@A~ā'Y [A | 'ā'Yb'āāāÉ

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

Ō'j'āāA^āAYY & ~\āā'āAY@Žā'ZŽāYŽāYāāA' āH YA \ ā * \ ŽAYāZA { ^āZŽ@a \ āAZ} ~Ž@'ŽāYŽDAYAY'YbYā [ābAa^@A
 ~Ž@ā^āYāA^@^ { bāYāZā'āZŽ~ŽāZŽāYŽÉŌbA~@^ | ŽŽāA'āā \ & Ž@Y'āZā^~@b \ ā'b'ŽāAb^Aā' | ŽA { 'bāA^bāŽ@āA { ā^A
 Y@ŽAZ'āāŽ@ŽābAa^ & A [^ \ @āžāaDAb^AY'ŽY^ & ŽAYāžYŽZ@DAb^AY^ & & \ ā'Y'YbŽA { ŽāaDAb^A & YāYāŽāY'āāā'YbāA
 ā \ Y'YŽāāa \ āā [DAb^A & YæŽāA^ \ āZAZŽY'ā'āāDAYāZAb^AY^AYZŽāA [^ \ @A~Ž@ā~ŽYb' | ŽA^āAbāŽA { ^@āZÉ

ŪŽA'ā | 'bŽA [^ \ Ab^AZ & Y'Y'YŽAbāŽā~'@'bA^aAY^ & & \ ā'b [DAbYæŽāA^ & ŽA@'āæāA { 'āā'āāā [DA & ŽŽbA [^ \ @AYāYāāŽāāŽāA
 YāZA@Žā~^āā'Y'ā'b'ŽāAā^āZābā [DAžZY@āAa^ & A [^ \ @A & 'ābYæŽāAā \ & Yā [DAYāZā@Žā~ŽYbA [^ \ @āžāaDA [^ \ @A
 āž'āāY^@āDA [^ \ @AY^ & & \ ā'b [DAYāZA [^ \ @AŽā | 'ā'ā & ŽābAŽāž@āžb'Y'Yā [É

Łābā^ \ āāAbāŽAŪā' | Ž@ā'b [AāYāāāžbāābYāZY@ZāA^aAY'ŽāY | ^@Aa^@AYāāAāb \ ŽŽābāDAā^ & ŽAYZZ'b'āYāAá \ ŽŽā'āžāA
 Y@ZāāžYŽāāY@ [Aa^@Abā^āZā { ā^Aā' | ŽAb^āžbāž@A'āAbāŽA@Žā'ZŽāYŽāYāāāÉAN \ @'āāAY^ & & \ ā'b [A & ŽŽb'āāāA [^ \ A
 { 'āāAbYāæAY' \ bāā^ { AZ | Ž@ [^ \ āZAY'YāAāā^ { AZY'Yā^bāž@A@'Žā~ŽYbÉACE^@A * \ Žāb'āāā^@AY^ & & ŽābāDA~āžYāŽA
 Y^ābY'YbAbāŽARaa'YŽA^aSŽā'ZŽāYŽāŌ'āZAYbAāĐÉHBAÉ I ÉFFÉ Í DA@Žāā'āž L āY'ÉŽZ \ DAYāZÉ^@A | 'ā'bA^ \ @A { ŽYā'bŽA
 YbIAābb~IÉÉā'bŽāÉāY'ÉŽZ \ É@Žāā'āžÉ

&RFJCRGA COSGNKCLR &Y[A^bAYZ\ aZZA'AbazZa'ZzYzAaYaaA^A' & &ZZ'YbZa[AYZaYyZabAb^A@Za'ZzA'YzA
aYaaAZ^^@aAYaZA { 'az^ { aEAb a' aY\ ZzAY\ bA' aA^bAa' & 'bZZAb^IAaYbZAY^Y@ZaiA@^aaZ@AYaYZZaiAYY@^aaZ
YaZAa^Yz[AZ* \~&ZabIAa^aaAYaZAYaZYYaaZ* \~&ZabIAYYaZbYaaDA^Y^ { a'aaAYYaaDAa^bYaaDA@ \aY[A
YaaDAa^YyZ@AYYaaDA | ^aaZ[AYYaaDAbZaa'aAYaaAYaZA@YY* \ZbAYYaaDAa@'aYZZaDAYaZAaY^bZ@aEakbaZbYA
Z* \~&ZabA&Y[A^aa[AyZAb^@ZZA'aA@Za'ZzYzAaYaaA^& aDAYaZA'aA^bA~Z@&'bbZZA'aAaYaa { Y[aDAY^& &^aA
Y@ZYaDA@Zab@^^&aDAZbYE

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

Ú a ž a Y ž Y á ' á á A ā b Y a a A ^ @ A b ā ž A & Y ' ā b ž a Y ā Y ž A ā b Y a a B A Y @ ž A ' ā A Y A @ ž ā b @ ^ ^ & A b ^ A Y ž Y ā A ^ @ A & Y æ ž A @ ž ~ Y ' @ ā D A b ā ž A
ž ā b @ Y ā Y ž A { ' ā ā Y ž A Y ž ā ^ ā ž ž A Y ā ž A Y ā ^ Y æ ž ž A ^ @ @ ^ ~ ž ž A ^ a a E 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 É A b ā ž A \ ā ' | ž @ ā ' b [A @ ž ā ž @ | ž ā A b ā ž A @ ' ā ā b A b ^ A b Y æ ž ž A ž ' ā Y ~ ā ' ā Y @ [A Y Y b ^ ā A 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 Y [É

(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~@^|ŽŽÉAŁ~@^|ŽŽAY~ā'YāYŹāA'āYā\ZŽābŽ@Ž^āDA
Y^&~\bŽ@āDAbŽāŽ|'ā'^āāDAŇÚŇA~āY[Ž@āDA@Ža@'āŽ@Yb^@āĀFĒHAY\Y'YāŽŽbA^@Aā&YāāŽ@BDA&'Y@^ { Y|ŽāĀĒĀY\Y'Yā
a^bAYāZA\āŽŽ@A ÍĒĒA { YbbāBDAYāYāāŽbāDAaYāāDAY^āāŽŽA&YāāŽ@āDAZŽāāā'āābāDAāY'@AZ@|Ž@āDAāY'@A
āb@Y'āābŽāŽ@āAYāZAY\@ā'āāA'^āāĒĒARāŽ@Ža@'āŽ@Yb^@A'āAYāā^ { ŽŽA~Ž@AābYāZY@ZAZ^YāZ@^&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 \āāAY&~āDAŽāŽYb@'YāāāāāŽbāAYāZA { ^āāDAā'āāāĀ'āYā\Z'āāAbāŽA
ÓŽ^@āŽĀCE^Ž&Yāāā'āāBDA^'āA~^~Y^@āA~^~Ž@āDAā~YŹAāŽYbŽ@āDA~Ž@Y^Yb^@āDAY'@AY^āZ'b^āŽ@āĀ\āāŽāāA
&ŽŽ'Yāā[AY~@^|ŽŽBDAāYā^āŽāAY\āYāY &~āDAYāZA~^b~^@\@'AY\@āŽ@āĒARāā[AUŌAY~@^|ŽŽDAY'@Y\ 'bA
Y@ŽYāŽ@Ab [~ŽāŽ}bŽāā'āāY^@ZāAYāZA~^ { Ž@Eāb@~āA&Y[AYŹA\āŽŽÉAŁā[AŽ]bŽāā'āāY^@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^ & 'áá' ab^AbāŽA@^ & É
ĐÉÁ ÓYááAYāāŽŽbA^ \ bA^AbāŽA@^ & A { 'áz^ { Ab^A'áz'YbŽAbāYbA [^ \ AY@ŽAbāŽŽÉ
ĚÉÁ NYāāĐÉHE€Ī | EÉĐ€FAb^A'á | ŽAÓNUSŇA [^ \ @A^AYb^'áÉ

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

pāŽ!Uá | Žā'b [AŌŽ'áābāACE'ŽA PY@āāYāā'āā~ŽŸbāŽYŸAUA | Žā'b [AY' 'áz'ááA^āAY@Žā \ āY@AāYāŽZ \ āŽÉpāŽA
Ě'ŽA PY@āāYāā & Y [AŽābŽ@AYā [A@^ & A { 'bā \ bā^b'ā'YŸb^'āAb^AZŽbŽ@ & 'āŽA'ā'bA'ā'ā' | ^'āYb^'āA^Aa'@ŽA'YāŽb [A
~^'āY'ŽāÉ

NY \ '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^@ŽDAbāŽAUA' | Žā'b [AbYæŽāAbāŽAYŸb^'āāA^AbY@ & ~Ž@'ááA { 'bāA@ŽAYāY@ & āDAā & ^æŽAZŽbŽŸb^@āDA
ā~@'āāāŽ@āDAYāZA@'ŽAŽ' } b'áá \ 'āāŽ@āA { ā'YāAb@'áāŽ@AYāAY@ & A | Ž@ [AāŽ@' \ āā [É

pāŽAa^āā { 'ááA { 'āāYŽAY^āā'ŽŽ@ŽZAYāAā \ aa'Y'ŽābAYŸ \ āŽAa^@A' & ŽŽ'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 \ 'ááAYAa'ŽAYāY@ & A { āžāA^AZYāāŽ@'āā~@ŽāŽābÉ

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

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

, ?K@JGLE 'āA~@^'ā'YbŽZĪ

, SCQRQ! OāY^@b'ááA [^ \ @A \ ŽābāA'āAbāŽAāYāā { Y [āDAYŸbā@^ & āDAYāZā^ \ 'ááŽāA'āA [^ \ @A@Žā~^āā'Y'ā'b [ÉA
pā'āā'āYā \ ŽŽāA@Žā'ŽābāA^aAbāŽ@AY' 'áz'ááāA { ā^AY@ŽA | 'ā'b'ááA [^ \ ÉAŌ \ ŽābāA^aA@Žā'ŽābāAāŽŽA'áŽZAYāA
bā^āŽA { ā^AY@ŽA^AbAYā^YŸ \ ~YābA^AbāŽA@^ & BAY@ŽA~Ž@ & 'bbŽZAb^AbY [A^ | Ž@ā'áābAŸ \ bAY@ŽA^AbA~Ž@ & 'bbŽZA
b^AābY [A & ^@ŽAbāYāAb { ^AY^āāŽŸ \ b' | ŽAā'áābāBā'āAbāŽA@Žā'ŽāYŽāAYāāA~@^ | 'ŽŽZAbāŽAā \ ŽābA'āA^AbāŽAāY & ŽA
āŽ'AYāAbāŽAā'āb'āāA@Žā'ŽābāA.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 & 'āŽŽAbāYbA
[^ \ AY@ŽA@Žā~^āā'YāŽAa^@AbāŽAYŸb^'āāA^Aa [^ \ @A \ ŽābāAYāZA { 'āāYŽāāŽāZAYŸŸ^ \ ābYŸāŽA^AYā [AZY & YāŽāDA
ā^āāA^aA~@^~Ž@b [DA^AYŽāY | ^@AbāYbA'ā'ā'b'YbŽZAY [A [^ \ @A \ ŽābāÉAŪ^ \ Aāā^ \ āZAYŸŸ^ & ~Yā [A [^ \ @A \ ŽābāA
YbAYāāb' & ŽāA { ā'āŽA^āAYŸ & ~ \ āÉ

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

7CN?GPQ b^Aāb \ ŽŽābA^A^ & āYŸYāYŽA@Ž* \ ŽābZZAYbĪA
[ābb~āīĒ { { { Ē & \[āYā^āY\ \ 'āāÉY^Ē & Ē \[āYā^āY\ \ 'āāÉ & āYŽZāY\ \ ābÉYā~KYŸYbā \ & JGFDFHĒĪ Ī ĐÀTŽ@J A](#)
YŽŌ^ā āJÉAŁāāAŽ* \ ŽābāAā^Ab^āZACEYŸ'ā' b' ŽāANŽ~Y@b & ŽābAYāZA { 'āāYŽAYZZ@ŽāāZZA { 'bā' āFĪAā\ \ āÉAŌā' bA
'āAYāAŽ & Ž'āžāY [DA~āŽYāZāŽbA [^ \ @A ŠŁDATŠŁDALNDAYāZÉ^@AŌNUSŌAēā^ { ÉA Tb \ ŽŽābāY@ŽĪā^bAYŸāŽAb^A
āYāZZ \ āZAY~^ āb & ŽābāA^@A & Y' ābžāYāYŽAb^AŽābž@Abāž@A@^A & Aa^@AbāžA@Ž~Y'@ÉA PY ābžāYāYŽābYaa' āA
ā^bA~Ž@ & 'bbZZAb^Ažābž@Aāb \ ŽŽābA^A^ & ābA^~Ž@A^@ & A@ž~Y'@āA \ āb'āÉÉAYÉ & ÉDA \ āžāā' bA' āYāAŽ & Ž'āžāY [ÉA
Pāž [AY@ŽA~Ž@ & 'bbZZAb^A { ^@ēA' āAYāāY^A & ^āAY@ŽYā^āAbāžA@Žā' ZŽāYžāYāYāZAYŸYbā^A^ & āYŽā' āā' āā
YbA IAYÉ & ÉA Ū āžāYŸYbā^A^ & āAY@ŽA^N^āžZcA^@A & Y' ābžāYāYŽA^AŸYāžYā' āāDAZ^A^ā^bābž@AbāžA@Žāb^A^ & ÉA
ŌāābžYZDA \ āžAYāAYbž@āYbžāYŸYbā^A^ & A' āAbāžāY \ 'āž' āāÉA PāžAUā' | Ž'ā' b [A@žāž@ | ŽābāžA@' āābAb^AbYæŽA
Z'āY'~ā'āY@ [AYŸb'āāYāY'āābAYā [Aāb \ ŽŽābA { ā^A | 'āYbžābā' āA~^ā'Y [É

7CQGBCLAW 7COS@PCKCLRĪ ŁāāŽābž@' āāAāb \ ŽŽābDA^AAbAYZ'b' āYāYāžDAžZZAb^AZŽYāY@Žābāž@' AābYb \ āAYāA
YA@Žā' ŽŽābA^AY^A & \ bž@Abā@^ \ āāAbāžAŌā@āā & ŽābAŠžāž@ | Yb' ^āACE^@ & AāžābAY [AbāžARāa' YŽA^aA
ŁZ & 'āā' ^āÉA Pā' āžāA^bAY^A & \ b' āāA^A^ & Aā^ & ŽAY@ŽAŽ* \ 'ŽZAb^Aā' | ŽA^āYŸY & ~ \ āAž \ 'āābāž@' Aā' @āb { ^A
[ŽY@āÉA Pā' āA~^ā' Y [AYāā^AY~~ā' ŽāAb^Abā^āžA { ā^Ab^YāāāžA' āb^AbāžAUA' | Ž'ā' b [AYāAb^YZ'b' ^ā' YāA' @ābE [ŽY@A
āb \ ŽŽābāÉAN^A & \ b' āāA' āAZŽā' āžZAYāA' | 'āāž' Yā \ ā' | Žā [A' āAbāžA~Ž@ & YāžābAYāZA~@' & Y@ [A@Žā' ZŽāYžA^aYA
~Y@žābA^AāžāYāā \ Y@Z'YāÉARāYžāYāAb \ ŽŽābžābYŸYā' āāžāā' āāž@AābYb \ āAYāYA@Žā' ZŽābDAāžÉāāžA & \ ābA
āžZæAY~~@^ | YāA^@AYAYāYāāžA^aAābYb \ āAb^AY^A & \ bž@ÉACE^@ & YāA@Ž* \ 'ŽābāYŸYāYŽA & YZZAbā@^ \ āābāžA
Rāa' YŽA^aA Šžā' ZŽāYžAŌ' āžA^AY^āā' Žž@Yb' ^āAY [AbāžAŌ^ \ ā' āāAN^āb^YŸYbA Šž' | Ž { AM^AY@žÉ

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

7MMK (MLBGRGMLĪ Øžž~A' āA & 'āZāYāžb [AYāZAbāžAYŸ'ā' b [Ab^Až] } bAa^A^ & A [^ \ @A@^A^ & A { āžāYZZ'āāA
a \ ā' b \ @žÉAŁā [Ab [~ŽA^aA~Y@b' b' ^āA^@AAYāā' āāA & Ybž@' YāAbāYbA@ž~@žāžābāYā~^bžāb' YāAa' @žāY] Y@ZA { 'āāA^bA
YŽA~ž@ & 'bbZZA'ÉžÉAYŸYāāž@ÉbY~žāb@' žāAāYāā' āāA^ | Ž@ā & ^æZAZžbžYb^āA^@AZžY^@Yb' | Žāā' āābāAYāā' āāA
a^A^ & AbāžAYž' ā' āāBÉAŪ^ \ \ & Y [AāYāāA [^ \ @A^ { āAY \ @bY' āāDAŸ \ bAUā' | Ž'ā' b [E'āā \ ŽZAZ@Y~žāA & \ ābAYžA@žÉā \ āāA
YžA^@žāYžYæ' 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^aA' @žā' žbY@ZYābA
& Ybž@' YāÉAŁāāZžY^@Yb' | Žāā' āābāA & \ ābAYžA^aA' āžA^@A \ āžAYāZAUŌAY~~@^ | ŽžÉAŌ' | ŽANā' āb & YāAb@žžāY@žā
ā^bA~ž@ & 'bbZZA' āA@žā' ZŽāYžAāYāāÉA Qž' āAā' āāAY@žā~@^ā' Y' bžZā' āA@žā' ZŽāYžAāYāāA { 'āžA { āÉA Tb@žžbAYāZA
b@Yaa' Yāā' āāāA^AYā [Aā^@bAY@žā~@^ā' Y' bžZā' āAāb \ Žžāb' A@^A^ & āÉ

QY'āāDAb \ & YbYŸæāDAbY~žA^aAYā [Aē' āZDAYāZ^Abāž@AZž | 'YžāāžžYŸYāāA^A & ' @^@āAYāZAZ^@āBAbāYbA { 'āāA
ZY & YāžAYā [A~Y' ābžZā^@A { ^žžāAā \ @aYŸžAY@žā^bA~ž@ & 'bbžžÉA P Y & ~ž@' āāA { 'bāA^@A@ž { 'āāA^aAžāžYb@' YŸYāA
a' } b \ @žā' āA~@^ā' Y' bžžÉA PāžAUā' | Ž'ā' b [A@žāž@ | ŽāAbāžA@' āābAb^A^ ZāžA { āYbA' āA^āYāžcA^@A' bāAY \ 'āž' āāAYāZ
^YŸY \ ~YābāÉA PāžAUā' | Ž'ā' b [A@žāž@ | ŽāAbāžA@' āābAb^A^ Ž* \ ' @žāb \ Žžābāb^A^ @ž & ^ | ŽābāžAZ'ā~āY [A^aA
^aažāā' | Žā & Ybž@' YāAā \ YāYāA^āAYAZ^@DA { 'āžA^ { DA@žā' ZŽāYžA@^A^ & A { YāāDAžbYÉBÉA Šžā' Zžābāāā^ \ āZā^bA
YbYŸābŪāAb^A { Yāāā' āAYā [A { Y [AbāYbAZY & YāžābāžA { Yāābāb^@^ \ āāA & \ ābāāY@ž' | ŽZā^AY^ābžžAb^AbāžA
{ YāāāÉA) 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
Zžbž@ & 'āžZAY [AbāžAUā' | Ž'ā' b [Aā^bAb^AYžA@^A^ & Aā^@ & YāA { ŽY@AYāZAbžY@A { 'āāYžAYāāžāāžžAb^AbāžA
Yāā' āāžžAb^AbāžA@^A^ & É

7MMK QC?PAF ŁāāžāYžāāY@ [DAŠžā' ZžāYžAŌ' āžAāb \ ŽžābābYaaA & 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\ @'áAbáŽA [ŽY@ÉA0aA [^AY@ŽAáZab { 'báAYA | YÿYáÿ [A' áA [^ \ @A@^ ^ & DA [^ \ AY@ŽA Ž} ~ ŽYbŽZAb^A { ŽáY^ & ŽAYaáŽ { A@^ ^ & YbŽÉAb^áŽAa\ \ áZAb^AYŽAZ' á@Žá ~ ŽYba \ áAb^A@Žá ŽZáAbááŽZæ' ááAYA @^ ^ & AYáYááZDA' áA^ @ZZ@Ab^AZ' áá \ YZZAbáŽ & DA & Y [AYŽYáY@áZZAa^@AYAY \ [^ \ bAYáZááŽáAbá@^ \ áAbáŽA Tb \ ŽZáAbAN^áZ \ YbAT [ábŽ & É

< C?NMLQ Y@ŽAá^bA ~ Ž@ & 'bbŽZÉAUáŽA^@A ~ ^ááŽáá' ^áA^Aa^@ŽY@ & áDAY & & \ á' b' ^áDAŽ} ~ á' á' | ŽáDAYááŽ^ \ á' á' YáŽ & 'YááDAæá' | ŽáAbáYbAZ^A^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' b' ŽáÉáY \ 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' b' ŽAYbA ább ~ IÉÉ { ŽY & ŽZ' YÉáY \ ÉZZ \ Éá@Éá' 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' Yáá' ZŽŽZAYa | ^áYb' ^áA^aAbáŽATb \ ŽZáAbAN^AZAYáZá' ááZŽá' áZZAY [AbáŽA0ábŽ@ ~ Ž@á^áYáAÚ' ^áŽáYŽAS^á' Y [AYbA ább ~ IÉÉá' b' ŽáÉáY \ ÉZZ \ ÉZZYá^aáb \ ŽZáAbáÉ ~ YáŽáÉY^ & & \ á' b' [ÉábYáZY@ZáÉ' áBŽ@ ~ Ž@á^áYáE | ^áŽáYŽE ~ ^á' Y [AÉ

8KMIGLE 5MJGAW

Ó^ááANy@^ááAUá' | Ž@á' b' [A' áAY^ & & 'bbŽZAb^A~@^ | 'Z' ááAYaáŽYábá [DAY^ & a^@bYÿáŽDAYáZa~@^Z \ Yb' | ŽA Žá | ' ^á & ŽáBaa^@AbáŽAb \ ŽZáAbáDAaYÿ \ áb [DAYáZáAbYaaDAY^áB@Yÿb^@áDA | ŽáZ^@áDAYáZa | ' á' b' ^áA^aAbá' á' á' Yÿ & ~ \ áÉAáPáŽ@Žá^@ŽDAá & ^æ' ááA' áa~@^á' Y' b' ŽZa' áAYááY \ 'áZ' áááH^áA \ á' | Ž@á' b' [A~@Ž & 'áZáÉAbáŽ@ŽAY@ŽAá^A ZŽá' ááYbŽZAA & ^æ' ááAY@ŽYáA' áAYá [A \ á' | Ž@á' b' [A~@ŽYbŽZAY \ 'áZ' áááÉAOYáAY \ 'áZ' áááYáA^áŽáŽáB@YáYŽA ZŽá' ááYbŽZAYáA & ^æŽÉa@ŽZÉAT & ^æ' ááA { 'bá' áAGÉAaZZbA^aAbáŽA & Y' áAŽáB@YáYŽáA^a@Žá' ZŽáYŽáYáááAYáZa { 'bá' áADGAb^AGÉAaZZbA^aAbáŽA ZŽá' ááYbŽZAA & ^æŽÉa@ŽZáŽáB@YáYŽáA^a^báŽ@A \ á' | Ž@á' b' [AY \ 'áZ' ááA' áA ~@^á' Y' b' ŽZÉ

Ł Yÿ^@Z' ááAb^AbáŽAŁ & Ž@ YÿáAÓ \ ááAŁ áá^Y' b' ^áDAŽ | Ž@ [A [ŽY@A' áAbáŽAUá' bŽZATbYbŽáA^ | Ž@A€ \ ÉDÉÉÉA ~ Ž^ ~ áŽAZ' ŽAa@^ & Ab^YÿYÿ^ÉYÿ \ áZZAZ' áŽYáZDA & Yæ' ááA' bAbáŽáŽYZ' ááAYÿ \ áŽA^a~@Ž | ŽáBAYáZAZZ' YbáÉA Ł á^báŽ@AGÉÉÉÉÉA ~ Ž^ ~ áŽAZ' ŽAa@^ & AŽ} ~ ^á \ @ŽAb^AáŽY^áZáYáZá & ^æŽÉ

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

ĀŠOÚŌTONĀŁ \ á \ áBáÉÉDÉDÉÉFB

8MJGAGR?RGML

T^à'ÿ'bYb'^âA'âAbâžA@Žã'ZZãÿŽâYââãA'ãA~@^â'ÿ'bžZAã^AYãAb^A~@^bžÿbA@Žã'ZZãbãAa@^&A\â { Žãÿ^&Žã | 'ã'bãA
YâZA~^ãã'ÿãŽAâY@Yãã&ŽãbÉARãâ[A@Žã'ZZãÿŽAâYââA^@áYá']Yb'^ããA&Y[Aã^â'ÿ'bã'âAbâž'@A@Žã'ZZãÿŽAYâZA
bãŽãA^ãâ[A { 'bãAbãžAY~@^ | YãA^aAbãžAãžYZA^aAâYããÉY@ŽYAY^@Z'ãYb^@Éÿ^&&\â'b[Aÿ^@Z'ãYb^@É
T^à'ÿ'bYb'^âA^âAUâ']Ž@ã'b[A~@^~ž@b[A'ãAãb@'ÿbã[A~@^â'ÿ'bžZA { 'bã^bAbãžA~@'^@A~ž@&'ãã'^ãA^aAbãžAÑ'@Žÿb^@A
^aATb\ZZãbAk.Yb'|b'ŽãA^@AY~@^~@'YbžAYÿYZž&'ÿAZžYãA^@AZž~Y@b&ŽãbããžYZÉ