

0} Áæ&&[¦åæ}&^Á¸ ác@ÁÜÒŒÔPÁÜ^* ~ |æcá[}ÁÒÔÁÞ[ÈFJ€ÏÐG€€Î

DfcXiWh. ŒÙÒX0ÁVŒŠÔUÁÜUÙŒÁØÜŒÕÜŒÞÔÒÁJ€G€ÍG

JYfg]cb. F

GYWh]cb'%"'=XYbh]Z]WUh]cb'cZ'h\Y'giVghUbWY'cf'h\Y'a]IhifY'UbX'cZ'h\Y'gidd`]Yf

%"%"DfcX i Wh"=XYbh]Z]Yf

DfcXiWh']XYbh]Z]Yf. ŒÙÒXQÁVŒŠÔUÁÜUÙŒÁØÜŒÕÜŒÞÔÒÁJ€G€ÍGÁÇÔ[}œá}•KIËVÒÜVËÓWVŸŠÔŸÔŠUPÒÝŸŠÁ

ŒÔÒVŒVÒĖÔQVÜUÞÒŠŠUŠĖÁÕÒÜŒÞQUŠĖÁVÒVÜŒTÒVPŸŠÁ

Ch\Yf']XYbh]Z]Yfg. ŒÔÒVŸŠUÔVŒPŸÖÜUÞŒÚPVPŒŠÒÞÒÙDÞ[}^

 $\\ \text{$\%$.} FY`Y jUbh']XYbh]Z]YX`igYg`cZ'h\Y'giVghUbWY`cZ'a]IhifY`UbX`igYg`UXj]gYX`U[U]bghUbWY`cZ'a]$

DfcXiWh'igYg. ئæ*¦æ}&^•

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9 a Yf [YbWm'd\cbY. U č•ãå^ÁU~ã&^ÁP [ˇ¦•KÁ€Ï Í€FFJGFFÏ

GYWh]cb'&"'<UnUfXg']XYbh]Z]WUh]cb

&"%'7'Ugg]Z]WUh]cb'cZ'h\Y'giVghUbWY'cf'a]IhifY

7`Ugg]Z]WUh]cb'ibXYf'FY[i`Uh]cb'fl97L'Bc'%&+&#&\$\$,

7`Ugg'UbX`WUhY[cfm`cZ Û\â}ÅÖ[!![•ā[}ĀbĀQ!!ācæcā[}ÅÖæc^*[!^ÁG XUb[Yf. Ò^^ÁÖæ { æ*^ÁbÁQ!!ācæcā[}ÁÔæc^*[!^ÁG Ù^}•ācā:æcā[}ÁÔæc^*[!^ÁF

Pæ:æ¦å[ˇ•Ác[Ác@^ÁŒˇˇæċi&ÁÒ}çā¦[} {^}cÁĒÁŠ[}*Ēc^¦{ÁPæ:æ¦åÅÔæc^*[¦^ÁH

PHF Í ÊÁÔæˇ•^•Á•\ã}Á㦦ācæcã [}È

PHFÏÊÂTæ^Á&æ*•^Áæ}Áæ||^!*ä&Á•\à}Á!^æ&cā[}È PHFJÊÂÔæ*•^•^Á•^¦ā[*•Á^^Áā!¦ācæcā[}È

PIFGÊÁPæ¦ {~~ |Ác [Áæ~~æci&Á|i~^Á ¸āc@Á| [} *Á|æ•cia} *Á^~~^&c•È

&"&'@UVY\'Y\Y a Ybhg

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G][bU"kcfX. Y @!}i}*

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DfcXiWh. ŒÙÒXŴVŒŠÔUÁÜUÙŒÁØÜŒÕÜŒÞÔÒÁJ€G€ÍG

F JYfg]cb.

PHFÍÊÁÔæˇ•^•Á•\ã}Á⦦ācæcā[}Ē <unufx ghUhY a Ybhg.

> PHF | ÎÊÁ Tæ^Á&æ * • ^Áæ } Áæ||^ ! * ã&Á • \ā } Á! ^æ&cā [} È PHFJÊÁÔæˇ•^•Á•^¦ā[ˇ•Á^^Á⦦ācæcā[}È

PIFGÊAPæ¦ {~~|Ac[Áæ~~æci&A|i~^A¸ic@A|[} * A|æ•cia} * A^~~^&c•È

Gidd'YaYbhU' =bZcf a Uh]cb.

ÒWPG€ÌĖÁÔ[}œá}•ÁFËTÒVPŸŠĔĠĔĢÍĔTÒVPŸŠPÒÝĒIĔÒÞĒĠĔŸŠDÔŸÔŠUÚÜUÚŸŠDTÒVPŒÞUŠĖÁHĒ ÇIĔQÙUÓWVŸŠĔĢĔTÒVPŸŠÚPÒÞŸŠDÚÜŲڌތŠĖÁŒŠÚPŒĒQŮŲTÒVPŸŠÁQUÞŲÞÒĖÁÔUWŢŒÜQÞĖ ŐÒŠVŒĔÖŒŢŒÙÔIJÞÒĒÁPÒŠQIJŸÜIJÚQÞÒĒÁŠQŢIJÞÒÞÒĒÁŠQÞŒŠIJIJŠĒÁŠQÞŒŠŸŠÁŒÔÒŸŒŸÒĒ

VÒVÜŒPŸÖÜUŠQÞŒŠUUŠĒÁWÞÖÒÔĒF€ĒÒÞŒŠĒÁTæ^Á]¦[å~&^Áæ}Áæ]|^!*ã&Á¦^æ&æi[}È

DfYWU i h]cbUfm

ghUhY a Ybhg.

ÚGÎFÊÁŒÇ[ãåÁà¦^æc@ã}*Áçæ][˘¦Á[¦Áå˘∙cÈ

ÚGÎIÊAYæ•@A@æ}å•Aæ}åA[c@^\A&[}cæ&c^åA•\ã}Ac@[¦[`*@|^Aæ-c^\A@æ}å|ã}*È

ÚGÏGÊÁÔ[}œ{ã}æc^åÁ¸[¦\Á&|[c@ã}*Á•@[ˇ|åÁ}[cÁà^Áæ||[¸^åÁ[ˇcÁ[-Ác@^Á¸[¦\]]æ&^È

ÚGÏHÊÁŒç[ãåÁ¦^|^æ•^Ác[Ác@^Á^}çã¦[}{^}cÈ

ÚGÌ€ÅY^æ¦Å]¦[c^&cäç^Á*|[ç^•Ð^^^Á]¦[c^&cä[}Ð~æ&^Á]¦[c^&cä[}È ÚH€GÐHÍGĒÁQØÁUÞÁÙSQÞKÁYæ•@Á¸āc@Á]|^}c^Á[~Á•[æ]Áæ}åÁ¸æc^¦È

ÚH€ÍÐHÍFÐHHÌĒÁQØÁQÞÁÒŸÒÙKÁÜā}•^Á&æˇcā[ˇ•|^Á¸āc@Á¸æc^¦Á-[¦Á•^ç^¦æ|Á{ā}ˇc^•ÈÁÜ^{[ç^Á&[}cæ&c |^}•^•ÈÁā-Á]¦^•^}cÁæ}åÁ^æ•^Ác[Áå[ÈÁÔ[}cä}ˇ^Á!ā}•ā}*Ē ÚHHHÐHFHEÁQ-Á•\ā}Áā!¦ācæcā[}Á[¦Á¦æ•@Á[&&ˇ¦•KÁÕ^cÁ{^âå&æ|Áæáçã&^Ðæcc^}cā[}È

ÚHHÏÐHFHÊÁQ-Á^^Á⦦ācæcā[}Á]^¦•ā•c•KÁÕ^cÁ{^åā&æ|Áæåçā&^Đæcc^}cā[}È ÚHÎGÊÁVæ\^Á[~Á&[}cæ{ã}æc^åÁ&|[c@ã}*Áæ}åÁ¸æ∙@Áà^~[¦^Á¦^˘•^È

ÚÍ€FÉÁÖã∙][•^Á[-Á&[}c^}c∙Ð&[}cæã}^'lÁc[Áæ]]¦[ç^åÁåã•][•æ|Á•āc^ÉÁã}Áæ&&[!åæ}&^Á¸ãc@Á|[&æ|

D]Whc[fUag.

&"''Ch\Yf'\UnUfXg

Ch\Yf'\UnUfXg.

Ù^} •ācā•^¦•Áå^&|æ¦^åÁ[}ÁæÁÔŠÚ

FĒTÒVPŸŠĒGĒÇÍĒTÒVPŸŠPÒÝĒ IĒÒÞĒGĒŸŠDÔŸÔŠUÚÜUÚŸŠD

TÒVPŒÞUŠĒÁHĒÇIĒQÙUÓWVŸŠĒGĒTÒVPŸŠÚPÒÞŸŠD Pæ:æ¦åÅŠæà^|K ÚÜUڌތŠĒÁŒŠÚPŒĒQÙUTÒVPŸŠÁQUÞUÞÒĒÁÔUWTŒÜQÞĒ

ÖÒŠVŒĒÖŒŢŒÙÔUÞÒĒÁPÒŠQUVÜUÚQÞÒĒÁŠQŢUÞÒÞÒĒ ŠQÞŒŠUUŠĒÁŠQÞŒŠŸŠÁŒÔÒVŒVÒĒÁVÒVÜŒPŸÖÜUŠQÞŒŠUUŠĒ

WÞÖÒÔĒF€ĒÒÞŒŠ

P^å|[&æ|à[}ÁÔ[}&^}clæca[}ÁÃK

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DfcXiWh. ŒÙÒXŴVŒŠÔUÁÜUÙŒÁØÜŒÕÜŒÞÔÒÁJ€G€ÍG

JYfg]cb. F

GYWh]cb''"'7cadcg]h]cb'#']bZcfaUh]cb'cb']b[fYX]Ybhg

'"&`A]IhifYg

7cbhU]bg.

BUaY	75G	97	F957< FY[]ghfUh]cb Bc"	ı	7`Ugg]Z]WUh]cb'Zcf fl7@DL'%&+&#&\$\$,</th><th>GdYWJZJW'7cbW" @] a]hgž' A!ZUWhcfg UbX'5H9g</th></tr><tr><td>ÚPÒÞÒVPŸŠ ŒŠÔUPUŠ</td><td>΀ĒFGËÌ</td><td>G€€ĒIÍÎĒG</td><td>€FËGFFJJÎHJGFËHFË¢¢¢¢</td><td>ÍËŁF€Ã</td><td>ŒVUÁTĒÒÖÁGLPH€GĒ PHFJĒĒ</td><td>å^¦{æ KÁŒVÒÁMÁGÍ€€ {*Đ*Àà¸Ē[¦æ KÁŒVÒÁM FÎF€Á{*Đ*Áà¸</td></tr><tr><td>VÒVÜŒTÒVPŸŠ ŒÔÒVŸŠUÔVŒPŸÖÜUÞ ŒÚPVPŒŠÒÞÒÙ</td><td>Í I I Î I Ê Í Ï ĒGĒ Î Ì F Í Í Ē Î Ē Ì Ē Î Ì F Í Í Ē Î Ï ĒJ</td><td>GÍJĒFÏIĒHĒ GÎÌĒJÏÌĒHĒ GÎÌĒJÏJĒJĒ JFÍĒÏH€ĒH</td><td>€FĒGFFJIÌJJÌJĒ€IĒ¢¢¢¢</td><td>ÍĒŁF€Ã</td><td>ÙÔMGĒÙÙÁFÓĒÒPÁÔGL PHF ÍĒPHF ÏĒP I FFĒĒ</td><td></td></tr><tr><td>ÓÒÞZŸŠÁŒÔÒVŒVÒ</td><td>FI€ËFFËI</td><td>G€ÍËHJJĒÏ</td><td></td><td>ÍËŁF€Ã</td><td>Ò PÁÔHLP I FGÉË</td><td>[¦æ KÁŒVÒÁMÁGIJ€ {*Ð*Áà,</td></tr><tr><td>IĖVÒÜVĖ ÓWVŸŠÔŸÔŠUPÒÝŸŠ ŒÔÒVŒVÒ</td><td>HGGF€ËGHËI</td><td>GÍ€ËJÍIËJ</td><td>€FËGFFJJÏÎGÌÎËGIË¢¢¢¢</td><td>FËŁÍÃ</td><td>ÙÙÁFÓLPHFÏÉË</td><td>[¦æ KÁŒVÒÁMÁHHÏ€ {*Ð*Áà¸</td></tr><tr><td>VÒVÜŒPŸÖÜUĒ TÒVPŸŠĒ ÇTÒVPŸŠÚÜUÚŸŠŒ ÚŸÜŒÞĒIĒUŠ</td><td>ÎHÍ€€ËÏFË€</td><td>l€ÍË€I€ĔÎ</td><td>€FĒ€€€€FÍIÍÌĒÎIĒ¢¢¢¢</td><td>FĒŁÍ Ã</td><td>ÒÖMGLPHFJÈË</td><td></td></tr><tr><td>ÕÒ܌ތUŠ</td><td>F€ÎËGIËF</td><td>G€HËHÏÏËF</td><td>€FËGFFJÍÍGIH€ËIJË¢¢¢¢</td><td>FËŁÍÃ</td><td>ÙÔÁGĒÒÖÁFĒÙÙÁFL PHF Í ĒPHF Ï ĒPHF Ì ĒĒ</td><td>[¦æ KÁŒVÒÁMÁH΀€ {*Ð*Áà,</td></tr><tr><td>Ô0VÜUÞÒŠŠUŠ</td><td>F€ÎËGGËJ</td><td>G€HËHÏÍĒ€</td><td>€FËGFFJIÍHJJÍËGHË¢¢¢¢</td><td>FËŁÍ Ã</td><td>ÙÔMGĒÒÖMGĒÙÙÁFÓL PHFÍĒPHFÏĒPHFJĒĒ</td><td>å^¦{æ KÁŒVÒÁMÁGÎÍ€ {*Đ*Àà¸Ë[¦æ KÁŒVÒÁM HIÍ€Á{*Đ*Áà¸</td></tr><tr><td>HĒÇIĒQÙUÓWVŸŠĒGĒ TÒVPŸŠÚPÒÞŸŠD ÚÜUڌތŠ</td><td>FÎHÏGJIËFGË G</td><td>ÌFFĒGÌÍĒH</td><td></td><td>FĔŁÍÃ</td><td>ŒVUÁTĒÙÔÁGĒÒÖÁGĒÙÙ FĒÒPÁÔGLPH€GĒPHFÍĒ PHFÏĒPHFJĒPTFĒĒ</td><td></td></tr><tr><td>ŠQÞŒŠŸŠÁŒÔÒVŒVÒ</td><td>FFÍËJÍËÏ</td><td>G€IËFFÎĒI</td><td>€FËGFFJIÍIÏÌJËFJË¢¢¢¢</td><td>FËŁÍ Ã</td><td>ÙÔŴGĔÒÖŴGĔÙÙŃFÓL PHFÍĒPHFÏĒPHFJĒĒ</td><td></td></tr><tr><td>VÒVÜŒPŸÖÜUŠ(ÞŒŠU UŠ</td><td>Ï ÌĒÎ JĒH</td><td>G€FËFHHĒJ</td><td>€FËGFFJIÍIÏÌÌËGFË¢¢¢¢</td><td>FËŁÍ Ã</td><td>ÙÔŴGĔÒÖŴGĔÙÙŃFÓL PHFÍĒPHFÏĒPHFJĒĒ</td><td></td></tr><tr><td>ŠîTUÞÒÞÒ</td><td>ÍJÌJĒGÏĒÍ</td><td>GGÏĒÌFHĒÍ</td><td></td><td>€ÈFËŁFÃ</td><td>ØŠÁHĒÙÔÚÁGĒÙÙÁFÓĒŒP FĒÒPÁŒFĒÒPÁÔHLPGGÎĒ PH€IĒPHFÍĒPHFÏĒ PI€€ĒPIFGĒĒ</td><td></td></tr><tr><td>ŒŠÚPŒŪÙUTÒVPŸŠ ŒŠÚPŒŌÙUTÒVPŸŠ</td><td>FGÏĒÍFĒÍ</td><td>G€IËÌIÎĒH</td><td></td><td>€ÈFËŁFÃ</td><td>ÙÙÁFÓĒÒPÁÔGLPHFÏË PIFFĒĒ</td><td></td></tr><tr><td>PÒŠQUVÜUÚQÞÒ</td><td>FG€ËÍÏË€</td><td>G€IËI€JĒÏ</td><td></td><td>€ÈFËŁFÃ</td><td>ÙÙÁFÓLPHFÏÉË</td><td>[¦æ KÁŒVÒÁMÁGÏ€€ {*Ð*Áà,</td></tr><tr><td>WÞÖÒÔĒF€ĒÒÞŒŠ</td><td>FFGËI ÍËÌ</td><td>G€HËJÏHËF</td><td>€FËGFFJJJ€Ï I ÎËG€Ë¢¢¢¢</td><td>€ÈFËŁFÃ</td><td>ÙÙÁFÓĒÒPÁÔHLPHFÏË PIFGĒĒ</td><td></td></tr><tr><td>ÔUWTŒÜQÞ</td><td>JFĒÎ IĒÍ</td><td>G€GË€ÌÎËÏ</td><td></td><td>€ÈFËŁFÃ</td><td>ŒVUÁTĒÙÙÁFÓĒÒPÁÔHL PH€GĒPHFÏĒPTFGĒĒ</td><td>[¦æ KÁŒVÒÁMÁÍ€€Á{*Ð* à.</td></tr><tr><td>FĒTÒVPŸŠĒĠĒÇÍĒ TÒVPŸŠPÒÝĒIĒÒÞĒGĒ ŸŠDÔŸÔŠUÚÜUÚŸŠD TÒVPŒÞUŠ</td><td>FÎÍÍÍÍ€€ËÌHĖ Î</td><td>JIGĒÍJÏĒJ</td><td>€FĒGFG€€J∣€ÎÏĒÍGĒ¢¢¢¢</td><td>€ÏFËŁFÃ</td><td>ŒVÖÁTĒÙÔMGĒÒÖMGĒÙÙ FÓĒÒPÁÔGLPHFGĒPHFÍĒ PHFTĒPHFJĒPTFFĒĒ</td><td></td></tr><tr><td>ŠQÞŒŠUUŠ</td><td>ïìĖï∉Ėî</td><td>G€FËFHIËI</td><td>€FËGFFJIÏI€FÎËIGË¢¢¢¢</td><td>€ÈFËŁFÃ</td><td>ÙÔŴGĔÒÖŴGĔÙÙŃFÓL PHFÍĒPHFÏĒPHFJĒĒ</td><td>[¦æ KÁŒVÒÁMÁGÏJ€ {*Ð*Áà¸</td></tr><tr><td>ÖÒŠVŒĒÖŒTŒÙÔUÞÒ</td><td>(THT)ĒÎ)ĒI</td><td>G΀ËÏ€JĒÌ</td><td></td><td>Ł€ĖFÃ</td><td>ŒVUÁIĒÙÔÓÁGĒÙÙÁFŒĒ ÒPÁŒFĒÒPÁÔFLPH€GĒ PHFÍĒPHFÏĒPIF€ĒĒ</td><td>[¦æ KÁŒVÒÁMÁFI€€ {*ð*Áà,</td></tr></tbody></table>
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DfcXiWh. "ŒÙÒX0ÁVŒŠÔUÁÜUÙŒÁØÜŒÕÜŒÞÔÒÁJ€G€ÍG

JYfg]cb. F

GiVghUbWYg'k]h\'7caaib]hm'kcf_d'UWY'YIdcgifY'']a]hg.

BUaY	75G	97	F957< FY[]ghfUh]cb Bc"	ı	7`Ugg]Z]WUh]cb'Zcf fl7@DL'%&+&#&\$\$,</th><th>GdYW]Z]W`7cbW" @] a]hgž`A!ZUWhcfg UbX`5H9g</th></tr><tr><td>ÖlÖVPŸŠÁÚPVPŒŠŒVÒ</td><td>Ì I Ē Î Î ËG</td><td>G€FĖÍÍ€ĖÎ</td><td>€FËGFFJIÌÎÎÌGËGÏË¢¢¢¢</td><td>Í€ËF€€Ã</td><td>ĒLĒĒĒ</td><td></td></tr></tbody></table>
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 $\label{lem:continuous} GiVghUbWYg'h\Uh'UfY'YbXcWf]bY'X]gfidhcfg'UWWcfX]b['hc'FY[i`Uh]cb'fl9~IL'&$\%,\#*$)\\ \check{z}[fYUhYf'h\Ub'$"\%~i~.$

Þ[cÁŒ]]|ä&æà|^

GiVghUbWYg'h\Uh'UfY'dYfg]ghYbhž'V]cUWWiai`Uh]jY'UbX'hcI]W'cf'jYfm'dYfg]ghYbh'UbX'jYfm'V]cUWWiai`Uh]jYž'[fYUhYfh\Ub'\$"%i.

Þ[cÁŒ]]|ã&æà|^

GYWh]cb'(":]fgh!U]X'aYUgifYg

("%'8YgWf]dh]cb'cZ'Z]fgh'U]X' a YUg i fYg

=b\U`Uh]cb. Ü^{[ç^A-|[{Å^¢][•~\^4•āc^Ac[Á-\^•@Áæä¦ÊÁ\^^]ÁæcÁ\^•cÊÁæ}åÁ[àcæä}Á{^åä&æ|Áæcc^}cï[}È

9mY'YldcgifY. QØÁQÞÁÒŸÒÙKÁÜä}•^Á&æ`čä[`*•|^Á¸äc@Á¸æc^¦Á-[¦Á•^ç^¦æ|Á {ä}`c^•ÈÁÜ^ { [ç^Á&[}cæ&cÁ|^}•^•ÊÁä-Á]¦^•^}c

æ}åÅ^æ•^Ác[Áå[ÈÁÔ[}cã} ~^Á¦ã}•ã}*È

("&`Acgh']adcfhUbh'gmadhcag'UbX'YZZYWhgž'Vch\'UWihY'UbX'XY`UmYX

Tæ^Á&æ~•^Áæ}Áæ||^¦*ã&Á•\ã}Á¦^æ&cã[}È

Ôæˇ•^•Á•^¦ã[ˇ•Á^^Á㦦ācæcã[}È

("''=bX]WUh]cb'cZ'Ubm']a a YX]UhY' a YX]WU`'UhhYbh]cb'UbX'gdYW]U`'hfYUh a Ybh'bYYXYX

Þ[}^Á^¢]^&c^åÊÁ•^^ÁÙ^&cā[}ÁIÈFÁ~[¦Á~~¦c@^¦Áá}~[¦{æcá[}È

GYWh]cb').:]fYZ][\h]b['a YUgifYg

Ù ĭacæà|^Á { ^åiæK Ôæ¦à[}Áåi[¢iå^ÊÁÖ¦^Á&@^ { i&æ|ÊÁØ[æ { È

)"&'GdYW]U``\UnUfXg'Uf]g]b['Zfca'h\Y'giVghUbWY'cf'a]IhifY

)"''5Xj]WY'Zcf'Z]fY'Z][\hYfg.

Q}Á&æ•^Á[-Áā}•~~ā&ā^}cÁç^}cā|æcā[}ÊÁ¸^æ¦Á•~ăcæà|^Á¦^•]⦿c[¦^Á^~~ă]{^}cÈ

Q}Áæ&&[¦åæ}&^Á¸ác@ÁÜÒŒÔPÁÜ^* ~|ædi[}ÁÒÔÁÞ[ÈFJ€ÏÐG€€Î

DfcXiWh. ŒÙÒXQÁVŒŠÔUÁÜUÙŒÁØÜŒÕÜŒÞÔÒÁJ€G€ÍG

JYfg]cb. F

GYWh]cb'*"'5WW]XYbhU`'fY`YUgY' a YUg i fYg

*"%'DYfgcbU`'dfYWUih]cbgž'dfchYWh]jY'Yei]daYbh'UbX'YaYf[YbWm'dfcWYXifYg.

΍[ååÁå}@æ|æɑi[}ÈÁŒç[ååÁ&[}œæ&cÁ¸åc@Á•\ã}Áæ}åÁ^^•ÈÁÙ^^Á]¦[c^&æç^Á{^æ•`¦^•Á`}å^¦ÁÙ^&ɑi[}ÁÏÁæ}åÁÌÈ

*"&'9bj]fcbaYbhU`'dfYWUih]cbg.

\$\$\^]A\@\\ \and \angle \{\da\\\\angle \angle \angle

*"'`AYh\cXg'UbX' a UhYf]U`'Zcf'WcbhU]b a Ybh'UbX'W`YUb]b['id.

*"('FYZYfYbWY'hc'ch\Yf'gYWh]cbg.

Œ|•[Á¦^-^¦Ác[Á•^&cã[}•ÁÌÁæ}åÁFHÈ

GYWh]cb'+"'<UbX']b['UbX'ghcfU[Y

$+ \begin{tabular}{ll} + \begin{tabular}{ll$

 $S^{-}_{A} = x^{A-1} [\{A@^{acA} - acA} = A^{-1} = A^{-$

+"&'7cbX]h]cbg'Zcf'gUZY'ghcfU[Yž']bW' i X]b['Ubm']bWc a dUh]V]`]h]Yg.

 $\label{eq:linear_control_of_co$

+"'GdYW]Z]W'YbX'i gYflgŁ.

Ølæ*læ}&^•KÁW•^Áå}Áæ&&[låæ}&^Á¸āc@Á*[[åÁ{æ}`~æ&c`lā}*Áæ}åÁa}å`•clāæ|Á@^*ā^}^Á]læ&ci&^•È

GYWh]cb', "'9 I dcg i fY'Wcbhfc`g#dYfgcbU`'dfchYWh]cb

, "%' 7 cbhfc`'dUfU a YhYfg

Y[¦\]|æ&^Å^¢][•~¦^Å|ã{ãc•K

=b[fYX]Ybh	75G	97	8 YgWf]dh]cb	JυiΥ
ÖlÖVPŸŠÁÚPVPŒŠŒVÒ	Ì IËÎ ÎËG G€FËÍ Í €ËÎ		WSÁŠ[}*Ěc^¦{Á^¢][•`¦^Á ā{ācÁÇÌĒ@[`¦ÁVΥŒD Ç{*Ð{HD	ÍÁ{*0{
OUOVPYSHOPVPLESLEVO	TITITEG		WSÁÙ@[¦cĒc^¦{Á^¢][•ˇ¦^Á ã{ācÁÇFÍĒ{ā}˘c^D Ç{*Ð{HD	F€Á{*0{

Q}Áæ&&[¦åæ}&^Á¸ác@ÁÜÒŒÔPÁÜ^*~|ææi[}ÁÒÔÁÞ[ÈFJ€ÏÐG€€Î

DfcXiWh."ŒÙÒXŴVŒŠÔUÁÜUÙŒÁØÜŒÕÜŒÞÔÒÁJ€G€ÍG

JYfg]cb.

,"&'9 I dcg i fY'7cbhfc`g

9mY'#'G_]b'DfchYWh]cb

Y^æ¦Á];[c^&acç^Á*|[ç^•D^^^Á];[c^&a[}D-æ&^Á];[c^&a[]

FYgd]fUhcfm'DfchYWh]cb

][••āà|^Á¸[¦\^¦Á^¢][•ˇ¦^•ĒÁÁåDÁW•^Á&|[•^åÁ•^•c^{•Á~[¦Ác¦æ}•~^¦¦ā}*Áæ}åÁ]¦[&^••á}*Ác@ā•Á{æc^¦āæ|Ē Œ|• [Á¦^~^¦Ác [ÁÙ^&cã [}•ÁGÁæ}åÁÏÈ

GYWh]cb'-"'D\mg]WU`'UbX'W\Ya]WU`'dfcdYfh]Yg

- "%'=bZcf a Uh]cb'cb'VUg]W'd\mg]WU`'UbX'W\Ya]WU`'dfcdYfh]Yg

D\mg]WU``GhUhY#7c`cif.	Ô ^æ!Á]æ ^Á^^ [¸Ác[Á^^ [¸Álā˘ăå
CXcif.	Þ[cÁå^c^¦{â}^å
CXcif'h\fYg\c`X.	Þ[cÁå^c^¦{â}^å
AY`h]b['dc]bh#ZfYYn]b['dc]bh.	Þ[cÁå^c^¦{â}^å
6c]`]b['dc]bh'cf']b]h]U`'Vc]`]b['dc]bh'UbX'\fUb[Y.	/c]`]b[Þ[લીå^c^¦{å}^å
:`UaaUV]`]hm.	Þ[cÁå^c^¦{ã}^å
@ckYf`UbX`iddYf`YId`cg]cb``]a]h.	Þ[cÁå^c^¦{ã}^å
:`Ug\`dc]bh.	NÁF€€Á»Ô
5 i hc!][b]h]cb'hY a dYfUh i fY.	Þ[cÁå^c^¦{â}^å
8 YWc a dcg]h]cb hY a dYfUh i fY.	Þ[cÁ¦^ ^çæ}c
d<.	Þ[cÁå^c^¦{â}^å
?]bY a Uh]W [·] j]gWcg]hm.	Þ[cÁå^c^¦{â}^å
Gc`iV]`]hm.	Þ[cÁå^c^¦{â}^å
DUfh]h]cb'WcYZZ]W]Ybh.'b!cWhUbc\#kUhYf'fl'c jU`iYŁ.	[Þ[cÁå^c^¦{á}^å
JUdcif ⁻ dfYggifY.	€È€I€ÎFGÏHÁ{{P*
8Ybg]hm'UbX#cf'fY`Uh] jY'XYbg]hm.	FÈ€Í΀
FY`Uh]jY`jUdcif`XYbg]hm.	Þ[cÁå^c^¦{â}^å
DUfh]W`Y`W\UfUWhYf]gh]Wg.	Þ[cÁå^c^¦{ã}^å
-"&"Ch\Yf"]bZcf a Uh]cb.	^Áæçæi æà ^

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DfcXiWh. ŒÙÒXQÁVŒŠÔUÁÜUÙŒÁØÜŒÕÜŒÞÔÒÁJ€G€ÍG

JYfg]cb. F

GYWh]cb'%\$"'GhUV]\]hm'UbX'fYUWh]j]hm

%\$"%'FYUWh]j]hm.

Ú¦^•^}c•Á}[Á•á*}ā-ā&æ}cÁ¦^æ&cāçāc^Á@æ:æ¦åÊÁà^Áāc•^|~Á[¦Áā}Á&[}cæ&cÁ¸āc@Á¸æc^¦È

%\$"&'7\Ya]WU`'ghUV]`]hm.

Ö[[åÅ•cæàā|āc^Áˇ}å^¦Å}[¦{æ|Å•c[¦æ*^Á&[}åäcā[}•É

%\$"''Dcgg]V]`]hm'cZ'\UnUfXcig'fYUWh]cbg.

Þ[cÁ^¢]^&c^åÁ`}å^¦Á}[¦{æ|Á&[}åācā[}•Á[~Á`•^È

%\$"('7cbX]h]cbg'hc'Ujc]X.

΍[ãåÁ^¢c¦^ { ^Á@^æcÈ

%\$") =bWc a dUh]V`Y` a UhYf]U`g.

΍[äåÁ&[}cæ&cÁ¸āc@Á•c¦[}*Áæ&äå•ÊÁæ|\æ|ā•Á[¦Á[¢āåā•ā}*Áæ*^}c•È

$\label{eq:constraint} \$\$"*`<\mathsf{UnUfXc}\ i\ g`XYWc\ a\ dcg]h]cb`dfcX\ i\ \mathsf{Whg}.$

Þ[cÁ^¢]^&c^åÈ

GYWh]cb'%%"'HcI]Wc`c[]WU`']bZcf a Uh]cb

%%"%'=bZcf a Uh]cb'cb'\UnUfX'W'UggYg'Ug'XYZ]bYX']b'FY[i`Uh]cb'fl97\L'Bc'\&+&#&\$\$,

V@ā•Á { ā¢cˇ¦^Á@æ•Á} [cÁà^^}Ác^•c^åÁæ•ÁæÁ¸@[|^Á-[¦Á@^æ|c@Á^--^&c•ÈÁV@^Á@^æ|c@Á^--^&c•Á@æç^Áà^^}Á&æ|&ˇ|æc^åÁˇ•ã} *Ác@^
{ ^c@[å•Á[ˇc|ã}^åÁã}ÁÜ^*ˇ|æċā[}ÁÇÔŌÁÞ[ÁFGÏGÐG€€ÌÁÇÔŠÚDÈ

5WihY'HcI]W]hm. Óæ•^åÁ[}Áæçæä|æà|^Áåææækc@^Á&|æ••ä-ä&æci[}Á&¦äc^¦äæÁæ¦^Á}[cÁ{^cÈ

 Œ& c^ÁV [¢ā&āc^Áܹæ|
 NÍ€€€

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 NÍ€€€

 CE& `c^ÁV [¢i&ic^ÁQ] @æ|æci[}
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 $\begin{array}{lll} \textbf{G_]b Wcffcg]cb\#]ff]hUh]cb. & \dot{\textbf{U}}\&\dot{\textbf{A}}\&\dot{\textbf{O}}\&(\textbf{I})\&\dot{\textbf{A}}\&(\textbf{I})$

 ; Yf a 'WY``` a i hU [Yb]W]hm.
 Óæ•^åÅ[}Åæçæi|æà|^ÅåæcæÁc@^Å&|æ••å-å&æci[}Å&¦āc^¦āæÁæ¦^Å} [cÅ { ^cÈ

 7UfW]bc [Yb]W]hm.
 Óæ•^åÅ[}Åæçæi|æà|^ÅåæcæÁc@^Á&|æ••å-å&æci[}Å&¦āc^¦āæÁæ!^Á} [cÅ { ^cÈ

 FYdfcX i Wh] j Y`hc I]W]hm.
 Óæ•^åÅ[}Åæçæi|æà|^ÅåæcæÁc@^Á&|æ••å-å&æci[}Å&¦āc^¦āæÁæ!^Á} [cÅ { ^cÈ

 GHCH!g]b [`YYIdcg i fY.
 Óæ•^åÅ[}Åæçæi|æà|^ÅåæcæÁc@^Á&|æ••å-å&æci[}Å&¦āc^¦āæÁæ!^Á} [cÅ { ^cÈ

 GHCH!fYdYUhYX`YIdcg i fY.
 Óæ•^åÅ[}Åæçæi|æà|^ÅåæcæÁc@^Á&|æ••å-å&æci[}Å&¦āc^¦āæÁæ!^Á} [cÅ { ^cÈ

 5gd]fUh]cb`\UnUfX.
 Óæ•^åÅ[}Åæçæi|æà|^ÅåæcæÁc@^Á&|æ••å-å&æci[}Å&¦āc^¦āæÁæ!^Á} [cÁ { ^cÈ

=bZcf a Uh]cb'UVcih'\UnUfXcig']b[fYX]Ybhg']b'h\Y'a]IhifY

=b [fYX]Ybh	75G	97	@8)\$#5H9 [·] CfU [·]	@8)\$#5H9 8YfaU`	@7)\$#5H9 =b\U`Uh]cb	@7)\$ FcihY
HĒÇIĒŪÙUÓWVŸŠĒGĒ TÒVPŸŠÚPÒÞŸŠD ÚÜUڌތŠ	FÎHÏGJIËFGËG	ÌFFËGÌÍËH	Í€€	Þ [cÁæçæi æà ^	Þ [cÁæçæi æà ^	Þ[c æçæi æà ^

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DfcXiWh. ŒÙÒXQÁVŒŠÔUÁÜUÙŒÁØÜŒÕÜŒÞÔÒÁJ€G€ÍG

JYfg]cb. F

ÚPÒÞÒVPŸŠ ŒŠÔUPUŠ Î€ĒFGĒÌ	G€€Ë∣ÍÎËG	FÎF€	GÍ€€	Þ[cÁæçæā æà ^	Þ[c æçæi æà ^
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Ü^~^¦Ác [ÁÙ^&cã [} ●ÁGÁæ}åÁHÁ~[¦Áæååãcã [}æ|Áã}~[¦ { æcã [}È

%%"&'=bZcf a Uh]cb'cb'ch\Yf'\UnUfXg

Þ[cÁŒ]]|ã&æà|^

GYWh]cb'%&"'9Wc`c[]WU`']bZcfaUh]cb

%&"%'Hc |]W]hm.

Pæ¦ { ~ ` |Ác [Áæ ` `æcã&Á|ã-^Á ¸ āc@Á| [} *Á|æ•cã} *Á^~~^&c•È

 %&"&*DYfg]ghYbWY'UbX'XY[fUXUV]`]hm.
 ▷ [dæçæi|æà|^

 %&"'*6]cUWWi a i`Uh]jY'dchYbh]U`.
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 %&"('AcV]`]hm']b'gc]`.
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%&") FYg i hg cZ D6H UbX jDj6 UggYgg a Ybh.

V@i•Á•~à•cæ}&^Áå[^•Á}[cÁ{^^cÁc@^ÁÚÓVÐçÚçÓÁ&Hāc^HāæÁ[~ÁÜÒŒÔPÊÁæ}}^^¢ÁÝQQÈ

%&"*`9bXcWf]bY`X]gf i dh]b [`dfcdYfh]Yg. ▷ [⋈Œ]]|i&æà|^
%&"+`Ch\Yf`UX j YfgY`YZZYWhg. ▷ [⋈æçæi|æà|^

GYWh]cb'%'"'8]gdcgU`'Wcbg]XYfUh]cbg

%'"%'KUghY'hfYUh a Ybh' a Yh\cXg.

Öä•][•^^[-há}hæ&&[¦åæ}&^|;āc@h|[&æ|h!^*`|æci[}•ÈhŒç[äåhää•][•ä}*hä}c[h妿ä}æ*^h•^•c^{•hæ}åhä}c[hc@^h^}çä¦[}{^}cÈhhÒ{]c^ &[}cæä}^!•h•@[`|åhà^hcæ\^}hc[hæ}hæ]]¦[ç^åh;æ•c^h@æ}å|ä}*h•āc^h-[¦h!^&^&|ä}*h[!håä•][•æ|È

GYWh]cb'%("'HfUbgdcfh']bZcf a Uh]cb

	%("% IB bi aVYf cf =8 bi aVYf.	%("&`IB`DfcdYf`G\]dd]b[`BUaY.	%("' HfUbgdcfh \UnUfX'W'Ugg flYgŁ.	GiV [·] F]g	%("('DUW_]b[; fc i d.
IB'AcXY' FY[i`Uh]cbg	Þ[c & æ••ã~ã^å	Ė	Ë	Ë	Ë
=A8;	Þ[c & æ••ã~ã^å	Ë	Ë	Ë	Ë
58FžF=8ž58B	Þ[c & æ••ã~ã^å	Ė	Ë	Ë	Ë
=75C'H=	Þ[c & æ••ã~ã^å	Ë	Ë	Ë	Ë

%(")`9bj]fcbaYbhU``\UnUfXg. Þ[ત\^}çål[} {^}cæ||^Å@æ:æ!å[˘•Å-[!Åclæ}•][lc

%("*'GdYW]U`'dfYWUih]cbg'Zcf'igYf. ▷[}^Áæååää[}æ|

 $\label{eq:continuous} \begin{tabular}{ll} $$ ("+`AUf]h] a Y'hfUbgdcfh']b'V i`_'UWWcfX]b ['hc'=AC']bghf i a Ybhg. $$ ("+`AUf]h] a Y'hfUbgdcfh']b'V i`_'UWWcfX]b ['hc'=AC']bghf i a Ybhg. $$ ("+`AUf]h] a Y'hfUbgdcfh']b'V i`_'UWWcfX]b ['hc'=AC']bghf i a Ybhg. $$ ("+`AUf]h] a Y'hfUbgdcfh']b'V i`_'UWWcfX]b ['hc'=AC']bghf i a Ybhg. $$ ("+`AUf]h] a Y'hfUbgdcfh']b'V i`_'UWWcfX]b ['hc'=AC']bghf i a Ybhg. $$ ("+`AUf]h] a Y'hfUbgdcfh']b'V i`_'UWWcfX]b ['hc'=AC']bghf i a Ybhg. $$ ("+`AUf]h] a Y'hfUbgdcfh']b'V i`_'UWWcfX]b ['hc'=AC']bghf i a Ybhg. $$ ("+`AUf]h] a Y'hfUbgdcfh']b'V i`_'UWWcfX]b ['hc'=AC']bghf i a Ybhg. $$ ("+`AUf]h] a Y'hfUbgdcfh']b'V i'_'UWWcfX]b ['hc'=AC']bghf i a Ybhg. $$ ("+`AUf]h] a Y'hfUbgdcfh']b'V i'_'UWWcfX]b ['hc'=AC']bghf i a Ybhg. $$ ("+`AUf]h] a$

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DfcXiWh. ŒÙÒX0ÁVŒŠÔUÁÜUÙŒÁØÜŒÕÜŒÞÔÒÁJ€G€ÍG

JYfg]cb. F

GYWh]cb'%)"'FY[i`Uhcfm']bZcf a Uh]cb

%) "%'GUZYhmž'\YU`h\'UbX'Yb j]fcb a YbhU``fY[i`Uh]cbg#`Y[]g`Uh]cb'gdYW]Z]W'Zcf'h\Y'g i VghUbWY'cf' a]Ih i fY
[}^\text{\mathrea}\t

%)"&'7\Ya]WU`'GUZYhm'5ggYggaYbh

ŒÁÔ@^{ &&æ|ÁÙæ-^c^ÁŒ••^• { ^}cÁ@æ•Á} [cÁà^^}Á&æ!¦ā^åÁ [`cÁ-[¦Ác@ā•Á]¦[å `&cÈ

GYWh]cb'%*"'Ch\Yf']bZcf a Uh]cb

7cbWYbhfUh]cb'ı'@]a]hg. ÜÔḍĠGMÎÎÈĠGÃÁÒÖQÁGMGÏÈÍÍÁÁÙÙÁFMFHÈÌJÃÁÒPÁÔHMGÏÈFÏÃÁÒÖQÁGŒMGÏÈ

ÍÍÃ

HchU`: fUWh]cbU`'JU` i Yg. ÙÔ0ÁGMFÈ Í FÁÒÖ0ÁGMHÈ Î HÁÙÙÁFM Ï ÈG€ÁÒPÁÔHMHÈ Î Ì ÁÒÖ0ÁGŒMHÈ Î H

?Ym'hc'fYj]g]cbg.

Þ[cÁæ]]|ã&æà|^

?Ym'hc'UVVfYj]Uh]cbg.

5VVfYj]Uh]cb	AYUb]b[
ŒPÁF	Œ•]ålæɑi[}ÅPæ:ælåÅÔæc^*[¦^ÁF
ŒVÖÁI	Œ&~c^ÁV[¢ã&ãc^ÁĒÁÖ^;{ @ ÁÔæc^*[;^Á]
ŒVUÁI	Œ&~c^ÁV [¢å&åc^ÁĒÁU ¦æ ÁÔæc^* [¦^Á I
ÒÖMF	Ò^^ÁÖæ { æ*^ÁÞÁG¦¦ācæcā [}ÁÔæc^* [! ^ÁF
ÒÖŒ	Ò^^ÁÖæ { æ*^ÆÁU; làcæcà [}ÁÔæc^* [! ^ÁG
ÒPÁŒF	Pæ:æ¦å[~•Åc[Ác@^ÁŒ~~œċ&ÁÒ}çå¦[}{^}cÁÉÆ&~c^ÁPæ:æ¦åÁÔæc^*[¦^ÁF
ÒPÁÔF	Pæ:æ¦å[~•Åc[Ác@^ÁŒ~~œċ&ÁÒ}çå¦[}{^}cÁÉÁŠ[}*Ĕc^¦{ÁPæ:æ¦åÁÔæc^*[¦^ÁF
ÒPÁÔG	Pæ:æ¦å[~•Åc[Ác@^ÁŒ~~œċ&ÁÒ}çå¦[}{^}cÁÉÁŠ[}*Ĕc^¦{ÁPæ:æ¦åÁÔæc^*[¦^ÁG
ÒPÁÔH	Pæ:æ¦å[~•Åc[Ác@^ÁŒ~~œċ&ÁÒ}çå¦[}{^}cÁÉÁŠ[}*Ĕc^¦{ÁPæ:æ¦åÁÔæc^*[¦^ÁH
ØŠÁH	Ø æ{{
PGG Î	Ø æ{ {
PH€G	Pæ¦ {~` ÁċÁ•¸æ [¸^åĖ
PH€I	Tæ^kà^k-æcæ ki-h•¸æ [¸^åkæ}åk^}c^\:•kæi\¸æ^•È
PHFG	Pæl {~~ Ái}Á&[}cæ&cÁ¸ic@Á•\i}È
PHFÍ	Ôæˇ•^•Á•∖ā}Áā!lāœæā[}È
PHFÏ	Tæ^k&æ~•^kæ}kæ ^!*å&k•\å}k!^æ&ci[}Ė
PHFÌ	Ôæˇ•^•Á•^¦ā[ˇ•Á^^Áåæ { æ*^È
PHFJ	Ôæˇ•^•Á•^¦ā[ˇ•Á^^Á⦦ācæcā[}È
PI€€	X^!^Ác [¢å&Ác [Áæ´ ` æcá&Ájā-^È
PIF€	X^!^Ác[¢å&Ác[Áæ´ˇæci&Ájā-^Á¸åc@Á [}*Ájæ•ci}*Á^^&c•È
PIFF	V [¢å&Åc[Åæˇˇæcå&Åjà-^Ÿåc@Å [}*Å æ•cå}*Å^^&c•È
PIFG	Pæl {~~ Ác[Áæ~~æci&Á ā-^Á¸āc@Á [}*Á æ•ci}*Á^^&c•È
ÚGF€	\$^^]\dag_@^4-\[{\dag^@cE\+\]@*E\[]^}\dag{^*\ab}\dag(\+`\-\ab}\dag(\+\)\\\
ÚGHH	\$^^]c@i}^!\doi*@c ^d& [•^&E
ÚGI€	Õ:[~}åBà[}åÅ&[}œä}^!Áæ}åÅ!^&^içä}*Á^~~~i]{^}ċÈ

0}Áæ&&[¦åæ}&^Á¸ác@ÁÜÒŒÔPÁÜ^*~|æá[}ÁÒÔÁÞ[ÈFJ€ÏÐG€€Î

DfcXiWh. ŒÙÒXŴVŒŠÔUÁÜUÙŒÁØÜŒÕÜŒÞÔÒÁJ€G€ÍG

JYfg]cb. F

ÚGIF	W•^Á^¢] [•ā[}Ë]¦[[-Á^ ^&c¦å&æ ÉÁç^}ci æci}*Áæ}åÁ à*@ci}*Á^~~~i]{^}cÈ
ÚGIG	W•^Á[} ^Á}[}Ě•]æ!\ã}*Ác[[•É
ÚGIH	Væ\^Á]¦^&æ`ci[}æ!^Á{^æ•`¦^•Áæ*æi}•cÁ•cæci&Áåi•&@æ¦*^È
ÚGÎF	Œç[àåÁà¦^æc@à}*Áçæ][~'Á['Áå~•cÈ
ÚGÎI	Yæ•@k@æ}å•kæ}åk[c@^!k&[}cæ&c^åk•\ä}kc@[¦[**@ ^kæ-c^!k@æ}å ä}*È
ÚGÏ€	Ö[h][d^ædååià}\h[ih•{[\^h_@^}h*•à}*hc@i•h];[å*&d
ÚGÏG	Ô[}cæ{ä}æc^åŸ[¦\Á& [c@á}*Á•@[~ åÁ}[cdà^Áæ [¸^åÅ[~cd[-Ác@^Á¸[¦\]]æ&^È
ÚGÏH	Œç[âåÁ¦^ ^æ•^Ác[Ác@^Á^}çå¦[} { ^}cÈ
ÚGÌ€	Y^æ;Á];[c^&ciç^Á* [ç^•0^^^Á];[c^&ci[}0-æ&^Á];[c^&ci[}È
ÚH€F∂HF€	0ØÁÙΥŒŠŠUΥÒÖKÁQ { ^ååæc^ ^Á&æ ÁæÁÚUQÙUÞÁÔÒÞVÒÜÁ[¦Áå[&c[¦Ð]@^•å&åæ}È
ÚH€F∂HFG	QØÁÙ Y ŒŠŠU Y ÒÖKÁ&æ ÁæÁÚUQÙU ÞÁÔÒÞVÒÜÁ [¦Áå [&c [;Ð] @^•å&åæ} Áå-Á^ [ˇÁ-^^ Áˇ } ¸^ È
ÚH€G∂H Í G	QØÁ∪ÞÁÙSQÞKÁΥæ•@Á¸àc@Á] ^}c^Á[-Á•[æ]Áæ}åÁ¸æc^¦È
ÚH€HÐHÎFÐHÍH	QØÁUÞÁÙSQÞÁÇ[iÁ@æðiDKÁÜ^{[ç^8cæ\^Á[~Áð{{^ååæc^ ^Áæ Á&[}cæ{i}æc^åÁ& [c@i}*ÉÁÜð;•^Á•\ð}Á¸åc@Á¸æc^iЕ@[¸^¦É
ÚH€ÍÐHÍFÐHHÌ	QØÁDÞÁÒŸÒÙKÁÜä}•^Á&æˇcï[ˇ• ^Á¸àc@Á¸æc^!Á-[!Á•^ç^!æ Á{à}ˇc^•ÊÁÜ^{[ç^Á&[}cæ&cÁ ^}•^•ÊÁä-Á]!^•^}cÁæ}åÁ^æ•^Ác[å[ÊÁŌ[}cä}ˇ^Á!ä}•ä}*É
ÚHF€	Q { { ^åiæc^ ^k&æ kækÚUQÙUÞkÔÒÞVÒÜk[!kå[&c[!Ð]@ˆ•i&iæ}È
ÚHFG	Ôæ ÁæÁÚUQÙUÞÁÔÒÞVÜÒÁ[¦Áå[&c[¦Ð]@^•à&āæ}Áā-Á^[ˇÁ-^^ Áˇ}¸^ È
ÚHH€	Üä}•^Á{[ˇc@Ė
ÚHHF	Ö[Á}[clá}å~&^Áç[{ácá}*É
ÚНННӘНҒН	Ū-Á•∖à}Áā¦¦āœœcā[}Á[¦Á¦æ•@Á[&&覕KÁÕ^cÁ{^åä&æ Áæåçä&^Bæcc^}cā[}È
ÚHH Ï ÐHFH	(\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.
ÚHÎG	Væ\^Á[Á&[}cæ{å}æc^åÁ& [c@å}*Áæ}åÁ¸æ•@Áà^-[¦^Á¦^`•^È
ÚHÎH	Yæ•@Á&[}cæ{ä}æc^åÁ& [c@ä}*Áà^-[¦^Á¦^~•^È
ÚHÏ€ÐHÏÌ	0}k&æ•^k[-k-ā:^KkW•^k&æ!à[}kåa:[¢åå^Ékå;^k&@^{ á&æ Ék-[æ{k-[;k^¢ci}&ci]}È
ÚHJF	Ô[^&⋈๎•]ā æ*^Ė
ÚI€HÐGHÍ	Ùc['^Ái}ÁæÁ¸^ Ēç^}ci œc^åÁ] æ&^ÈÁS^^]Á&[[È
ÚI€Í	Ùc[¦^Á [&\^åÁˇ]È
ÚÍ€F	Öá•][•^Á[-Á&[}c^}c*B&[}cæá}^\!Ác[Áæ]]¦[ç^åÁåá•][•æ Á•ác^ÉÁá}Áæ&&[¦åæ}&^Á¸ác@Á [&æ Á¦^** æcá[}•É
ÙÔŒ	Ù\à}ÁÔ[!![•ā[}ÁÐÁQ!lācæcā[}ÁÔæc^*[!^ÁG
ÙÙÁF	Ù^}•ācā:æcā[}ÁĒÁÙ\ā}ÁÔæc^*[¦^ÁF
ÙÙÁFŒ	Ù^}•àcà:æcà[}ÁĒÁÙ\à}ÁŌæc^*[¦^ÁFŒ
ÙÙÁFÓ	Ù^}•àcà:æcà[}ÁĒÁÙ\à}ÁÔæc^*[¦^ÁFÓ
	· · · · · · · · · · · · · · · · · · ·

V@^Aā}~[!{æci[}Aā}Ac@ā•A•æ-^c^AåæcæA•@^^cAi•Ac[Ac@^Aà^•cA[-A['!A\}[,|^å*^Ac!`^Aæ}åAæ&&`!æc^Aà`cAæ||AåæcæÊAā}•c!`&ci[}•Ê!^&[{{^}åæcā[}•Aæ}åB[!A•`**^•ci[}•Aæ}*Ac!`^Aæ}åB[!A•`**^•ci]}•Aæ}