

6cchghci f'Ui Z'XYa '9e]!; `YhgWXYf.'Y]bY FY]gY'Ubg'9bXY'XYf'K Y`h

8]Y '9e]!; `YhgW\Yf!6cchghci f'ZØ\fh'FY]gYbXY'Ub'XYb'5V[fi bX XYg'D`UbYhYb"'8cfh'Z]bXYb'G]Y'Y]b'ZUgh'ØVYfbUhØf`]W\Yg 9f`YVb]g'8Yf'[][Ubh]gW\Y'9e]!; `YhgW\Yf']b'; fÒb`UbX'`]Y[h Yhk U'(' \$'_a 'bÒfX`]W\'XYg'Dc`Uf_fY]gYg'i bX'Yhk U'%"* \$\$'_a gØX`]W\'XYg'BcfXdc`g"'5i Z'Y]bYa 'D`UbYhYb'a]h'ZUgh'UW\h A]``]UfXYb'A YbgW\Yb'`YVYb'bi f'gY\f'k Yb][Y']b'X]YgYb 6fY]hYb[fUXYb"'9e]ž'k Ug'Ui Z'; fÒb`ÀbX]gW\'FUbX 'VYXYi hYhž]gh'Y]b'dUggYbXYf'BUa Y'ZØf'Y]bYb'; `YhgW\YfžXYf'Ub'XYf `YhnhYb'; fYbnY'XYf'A YbgW\\Y]h'`]Y[h"'K Ybb'X]Y'9fXY hUhgÀW\`]W\'ZUW\'k ÀfYž_ObbhY'XYf'9e]!; `YhgW\YfXYf'Ui Z ?UfhYb'a Uf_]YfhY'Cfh'gY]bž'Ub'XYa 'GW\]ZZY'j YfgW\k]bXYb" \(\alpha \text{W}'Ygi W\hY'=\alpha'\)]ggUh'bUW\'a Y]bYb'5VYbhYi Yfb'Ui Z'XYa 5fWh]W7]fWY'/ Ua d\XY`]d/

 $8] Y `9e] !; `YhgWXYf! 6 c chghci f `ZØ\fh`FY] gYbXY `Ub`XYb`5V[fi bX`XYg D`UbYhYb" `8 c fh`Z]bXYb `G]Y`Y] b `ZUgh`ØVYfbUhØf`] WXYg`9f`YVb] g$

 $8 \ Yf'[\][\ Ubh]gWXY'9e]!; \ YhgWXYf']b'; \ fOb`UbX'`]Y[\ hYhk\ U'('\ \$'_a bOfX`]WX'XYg'Dc`Uf_fY]gYg'i bX'Yhk\ U'''*\$\$'_a 'gØX`]WX'XYg\\ BcfXdc`g'''5i ZY]bYa 'D`UbYhYb'a]h'ZUgh'UWXh'A]``]UfXYb'A YbgWXYb`YVYb'bi f'gY\f'k\ Yb][\ Y']b'X]YgYb'6fY]hYb[fUXYb''$

9e]ž'k UgʻUi Z'; fÒb`ÀbX]gW\` FUbX `VYXYi hYhž']gh'Y]bʻd UggYbXYfBUa YʻZØf'Y]bYbʻ; `YhgW\Yfž'XYf'UbʻXYf``YhnhYbʻ; fYbnYʻXYfA YbgW\\Y]h``]Y[h''K Ybb'X]Yʻ9fXYʻhUhgÀW\`]W\`ZUW\`k ÀfYž'_ÒbbhYXYf'9e]!; `YhgW\Yf'XYf'Ui Z'?UfhYbʻa Uf_]YfhYʻC fhʻgY]bž'UbʻXYa GW\]ZZYʻj YfgW\k]bXYb"

±W. VYgi W.hY '=i `]ggUh'bUW. 'a Y]bYb'5VYbhYi Yfb'Ui Z'XYa '5fWh]W 7]fWY'HfU]`"'BUW. 'XYf'9bhhÀi gW.i b[ž'XYb'HfU]`'b]W.h'[YgW.UZZh'ni

\UVYbž'k c``hY']W\'i bVYX]b[h'a Y]bY'j YfV`Y]VYbXY'NY]h']b'; fÒb`UbX bi hnYb"'6Y]'a Y]bYf'5b_i bZh']b'=i `]ggUh'Vi W\hY']W\'\Ugh]['Y]bY'9e]! ; `YhgW\Yf!6cchghci f'VY]'K cf`X'cZ'; fYYb`UbX"

9hk U', \$'_a 'bÒfX`]WX'j cb'=i `]ggUh' 'Y]b'[fÒb`ÀbX]gWXYg'K cfh'ZØf
9]gVYf[Y'' [Y`Y[Ybž'XUiYfh'Yg'a]bXYghYbg'XfY]'GhibXYbž'ia
9e]'a]h'XYa '6cch'ni 'YffY]WXYb"'I bgYf'GWX]ZZ'j Yf`]Y» 'XYb' < UZYb
j cb'=i `]ggUh'i bX'Zi \f'X]Y'a U`Yf]gWXY'5hUU!GhfU»Y'\]bUi Zž'X]Y
`Ub[Y'K UggYfghfYW_Y']b'XYf'8]g_cVi WXh!FY[]cb']a 'K YghYb
; fÒb`UbXg"'8]Y'FY]gYnY]hYb'_ObbYb'Y'bUWX'K YhhYf!'i bX
GYYVYX]b[ib[Yb'`Àb[Yf'gY]b"'=WX'\UhhY'; `ØW_.'8Yf'HU['k Uf\Yff`]WX'i bX'XUg'K UggYf'fi\]["

- 'U`h1 9]gVYf[Y'k À\fYbX'XYf'6cchghci f'Ui Z'XYa 'HYe]! ; 'YhgW\Yf']b'; fÒb`UbX'[YgY\Yb 2
- 'U`h1 9]gVYf[Y'k À\fYbX'XYf'6cchghci f'Ui Z'XYa 'HYe]! ; 'YhgW\Yf']b'; fÒb`UbX'[YgY\Yb 2
- 'U`h1 9]gVYf[Y'k À\fYbX'XYf'6cchghci f'Ui Z'XYa 'HYe]! ; 'YhgW\Yf']b'; fÒb`UbX'[YgY\Yb 2
- 'U`h1 2
- 'U`h1 2
- 'U`h1 k UggYfZU``'[YgY\Yb'Ui Z'XYf'Ye]![`YhgW\Yf! Vcchghcif 2

8]Y: U\fhYbh`Ub[XYf5hUU!GhfU»Ynia 9e]!; `YhgWXYf

5``Y]b`X]Y`: U\fh`Xcfh\]b`k Uf`XUg`; Y`X`k Yfh"`5`g`g]Y`Xi fW\`X]Y
fi\][Yb`; Yk ÀggYf`Ui »Yf\U`V'j cb`=i`]ggUh`gW\b]hhYbž
j YfgW\k UbXYb`X]Y`NY]W\Yb`XYf`N]j]`]gUh]cb`gW\bY``"`8 Ug`6cch
a UbÒj f]YfhY``Ub[gUa `i bX`j cfg]W\h][`Xi fW\`X]Y`A Yb[Y`XYf`gUbZh
gW\Ui _Y`bXYb`9]gVYf[YžVYj cf`Yg`U``a À\`]W\`Ub`; YgW\k]bX][_Y]h
[Yk Ubbž`U`g`Yg`X]Y`ZUfVYbZfc\Y`GhUXh`\]bhYf`g]W\``]Y» "

K]f'Z \fYb'k Y]hYf'i bX'\]Y`hYb'_i fn'Ub'Y]bYa '_`Y]bYb [`YhgWXYf[YgdY]ghYb'K UggYfZU``ž'XYf'g]WX'ØVYf'X]Y'?`]ddYb'Yf[cgg" 8Yf'9e]!; `YhgWXYf'hUi WXhY'gWX`]Y»`]WX'nk]gWXYb'gWXk UfnYb?`]ddYb'Ua '<cf]ncbh'Ui Z/Y]b'ghfU\`YbX'k Y]»Yf'6c[Yb'ØVYf'XYa K UggYf"'5i Z'XYb'YfghYb'6`]W_'gWX]Yb'Yg'b]WXh'gc'[fc»'ni 'gY]bž'k]Y

]WX '[`Ui VYb'[Ya UWXh'\UhhY"'<UhhY']WX 'a]WX 'Xi fWX 'A Uf_Yh]b[! , VYfhfY]Vi b[Yb'hÀi gWXYb'`UggYb3

'U`h1 8 Y f '9e]!; `Y hg W Y f 'hU i W h'ni Y fgh 'Ua '< cf]ncbh 'Ui Z 2 5 h`Ug /
6 cchg '8 Y f '9e]!; `Y hg W Y f 'hU i W h'ni Y fgh 'Ua '< cf]ncbh 'Ui Z</pre>

5`g`k]f`i bg`bÀ\YfhYbž`gW\b]hh`Y]b`_`Y]bYfYg`GW\]ZZ`ØVYf`X]Y : UggUXY`XYg`; `YhgW\Yfg"`9fgh`Yhnhž`a]h`Y]bYf`k]bn][Yb _Øbgh`]W\Yb`Jcff]W\hi b[`XUjcfž`_Ua`XUg`kU\fY`5i gaU»`XYg ; `YhgW\Yfg`ni a`JcfgW\Y]b"

BUWX 'Y]bYf'k Y]hYfYb 'Ghi bXY': U\fh'X]fY_h']b 'gY]bY ']a a Yf'[fÒ» Yf k YfXYbXYb 'K Y]hYb 'k Uf']WX 'Yfa i h][h'ni 'gY\Ybž'k]Y 'g]WX 'XUg gWX]YfY '5i ga U» 'X]YgYg'BUhi fk i bXYfg'c ZZYbVUfhY"

9g'k Uf'_c`cggU`"'<]bhYf'XYf'fY`Uh]j ii bVYXYi hYbXYb'9]gk UbXž'Ub
XYf'i bgYf'6cch'dcg]h]cb]Yfh'k Ufž'VYZUbX'g]W\'X]Y'f]Yg][Y
[fÒb`ÀbX]gW\Y'9]gXYW_Y'fcXYf'9]g_UddYŁ"'8]YgYf'f]Yg][Y'9]g_ÒfdYf
VYXYW_h'%"+%\$"\$\$\$'_a &'j cb'; fÒb`UbX' ii b[YZÀ\f', \$'i 'gY]bYf
@UbXcVYfZÀW\Y"

"U`h1 25h`Ug'/ '6cchg'9]b'6cch'gW\bY]XYh' \emptyset VYf'X]Y'K UbX'XYg'9e]! ; `YhgW\Yfg

8]Y'[fÒb`ÀbX]gW\Y'9]gXYW_Y']gh']a '5``[Ya Y]bYb'X]W_Yf'U`g'&'_a fi bX'' '_a 'Ub']\fYf'X]W_ghYb'GhY``YŁ'i bX'X]Y'nk Y]h[fÒ» hY'9]ga UggY XYf'K Y`h"'Bi f'X]Y'UbhUf_h]gW\Y'9]gXYW_Y'Ua '5bh]dcXYb'XYg D`UbYhYb']gh'[fÒ» Yf"'Hfchn'gY]bYf'Ybcfa Yb'; fÒ» Y'n]Y\h'g]W\'9e]' ni gUa a Yb'a]h'XYb'a Y]ghYb'[fÒb`ÀbX]gW\Yb'; `YhgW\Yfb' 'ni fØW_"

, VYf'XUg'5VgW\a Y`nYb'XYf'[fÒb`AbX]gW\Yb'; `YhgW\Yf'i bX
9]ggW\]`XY'k i fXY'j]Y`ZUW\'VYf]W\hYhž']bgVYgcbXYfY'bUW\'Y]bYa
VY]gd]Y``cgYb'Gca a Yf']b'XYf'5f_h]gž']b'XYa '<]hnYk Y``Yb'X]Y
9]ggW\a Y`nY']b'XYf'bÒfX`]W\Yb'<Ya]gd\AfY'VYgW\`Yi b][hYb"'\#b
X]YgYa '\\J\f'Ybh\Ø``hY'Y]b'HYUa 'j cb'K]ggYbgW\UZh`Yfbž'XUgg'X]Y
[fÒb`AbX]gW\Y'9]gXYW_Y'gc[Uf']a 'K]bhYf'ni 'gW\a Y`nYb'VY[cbbYb\Uh"</pre>

8Yf_U`VYbXY; `YhgW\Yf

8 Yf'U'g'_U`VYbXYf'; `YhgWXYf'VY_UbbhY'9e]']gh'Xcfhž'k c'Yf'Ui Z'XUg A YYf'hf]ZZhž'ZØbZ'?]`ca YhYf'VfY]h'i bX'_Ubb'Ub'gY]bYf'\ÒWXghYb GhY``Y'V]g'ni '&) \$'a '\cWX'gY]b"'9f']gh'j]Y``Y]WXh'b]WXh'XYf'[fÒ» hY']b XYf'; Y[YbXž'UVYf'XYf'; `YhgWXYf']gh'Y]bYf'XYf'U_h]j ghYb']b; fÒb`UbX"'B]WXh'`Ub[Y'bUWX'i bgYfYf'5b_i bZh'dUgghY'Yg'g]WX dfca dh'XYf'YfghYb'j cb'a Y\fYfYb'GhÒfi b[Yb'Ub"

'U`h1 9]b'9]gVfcW_Yb'Vf]W\h'j ca '9e]!; `YhgW\Yf'UV 25h`Ug'/ '6cchg 9]b'9]gVfcW_Yb'Vf]W\h'j ca '9e]!; `YhgW\Yf'UV

9]b'9]ggW\UW\h``ÒghY'g]W\'j cb'gY]bYb'K ÀbXYb'i bX'XcbbYfhY']bg
A YYfž'k cVY]'A Òk Yb']b'XYb'<]a a Y``fUghYb"'GcZcfh'VY[Ubb'XUg
K UggYf'i a 'i bg'\Yfi a 'ni 'gW\`U[Yb"'; YbUi 'Ui g'X]YgYa '; fi bX
a i gghY'i bgYf'6cch']b'g]W\YfYa '5VghUbX'ni f'; `YhgW\Yfk UbX
V`Y]VYb"'K Ybb'Ui »Yf[Yk Ò\b`]W\'[fc»Y'9]gVfcW_Yb'Ui g'XYa
; `YhgW\Yf'VfYW\Ybž'_ObbYb'g]Y'f]Yg][Y'K Y``Yb'YfnYi [Yb' 'gc[Uf_`Y]bY'Hgi bUa]g"

9g·Zc`[hYb·k Y]hYfY'?U`Vi b[Yb·i bX'XUg'K UggYf'i a ii bgYf'6cch j YfÀbXYfhY'g]W\']b'5i ggY\Yb'i bX'HYI hi f"'5`g'k]f'Ub_Ua Ybž'k Uf XUg'K UggYf'[`Uhh'i bX'_`Uf"'>\mathrightarrow\nh'j YfX]W\hYhY'Yg'g]W\'a]h'_`Y]bYb 9]gVYf[Yb'i bX'GW\bYYa UhgW\ž'U`g'HfØa a Yf'XYg'; `YhgW\Yfg i bgYf'6cch'i a [UVYb"

- 'U`h1 2

8]Y'CVYfZÀW\Y'bU\a 'Y]bYb'i b\Y]a `]W\Ybž'ZUgh'\mdbch]gW\Yb'HcbUbž'U`g'XYf'k Y]»Y'HYdd]W\i bhYf'XYa 'Fi a dZ'di `g]YfhY"'8 cfh'nighY\Yb'i bX'Ui Z'XYa '6cch'ni 'gW\k Ub_Ybž'k À\fYbX'Yg'gUbZh']b'XYf8Øbi b['XYg'K UggYfg'gW\Ui _Y`hYž'ZØ\`hY'g]W\'Ubž'U`g'k ØfXY'a UbUa 'FUbXY'XYf'K Y`h'gW\k YVYb"

A Y]bY'K Ub[Yb'k i fXYb'j ca 'K]bX'gW\Uf`UW\fch'i bX'a Y]bY':]b[YfghY]Z'j cb'XYf'?À`hYž'UVYf']W\'_cbbhY'a]W\ž'k]Y'U``Y'UbXYfYb'Ub 6cfXž'b]W\h'j cb'XYf'Àh\Yf]gW\Yb'GW\Òb\Y]h'XYg'; `YhgW\Yfg `cgfY]»Yb"'9g'k Uf'UVgc`i h'ZYggY`bX"

8]Y'9e]!; `YhgWXYf!6cchghci f'ZØ\`h'g]WX'k]f_`]WX'k]Y'Y]bY'FY]gY'Ub
XYb'FUbX'XYf'9fXY'Ub"'<]Yfž'Ua '5V[fi bX'XYg'D`UbYhYbž'k]fX
XYi h`]WXž'XUgg'k]f'A YbgWXYb'XUg'; Y`ÀbXY'XYf'BUhi f'VYhfYhYb"
<]Yf'\Uh'g]Y'XUg'GU[Yb"'=\W'Xi fZhY'Y]bY'KY]`Y'V`Y]VYbž'UVYf'bi f'ni
]\fYb'6YX]b[i b[Yb"

6cchghci f'Ui Z'XYa '9e]!; `YhgWXYf.'8Ug K]WXh][ghY

K Ug. '6cchghci fini a '9e]!; `YhgWXYf'UV'=i`]ggUhž; fÒb`UbX"

K c. '=i `]ggUh'VY[]bbh``Ub[gUa ž'X]Y'BUW\ZfU[Y'bUW\'I bhYf_ØbZhYba]h'Y]bYf'k UW\gYbXYb'5i gk U\``Ub'Cdh]cbYb'ni 'VYZf]YX][Yb"'AY]b6Ygi W\']a' < Ui dha cbUh' \(\frac{1}{2}\) i'k Uf'Y]bY'9bhgW\Y]Xi b[']b'`YhnhYfA]bi hYž'gcXUgg'X]Y'aY]ghYb' < chY`g'Ui g[YVi W\h'k UfYb"'8U'bi fbcW\'k Yb][Y'Cdh]cbYb'ØVf]['k UfYbž'ØVYfbUW\hYhY']W\']a'=i`]ggUh5dUfhaYbhž'Y]bYa'Y]bZUW\Yb'GY`Vghj Yfgcf[Yf!5dUfhaYbhž'%\$;Y\a]bi hYb'j ca'GhUXhnYbhfi a'YbhZYfbh"

 $5bXYfY`VY`]YVhYž`UVYf`hYifYfY`<chY`g`g]bX`XUg`<chY``<j]XY`:U`_žXUg`<chY``$fWh]WibX`XUg`<chY``$WZ]cfX"`9g`[]Vh`UiW\`Y]bYkUW\\gYbXY`5bnU\``jcb`5]fVbV!Cdh]cbYb`]b`XYf`[UbnYb`GhUXh"?`]\\\\Yb`G]Y`\]Yfž`ia`Y]bYb`FUVUhh`UiZ`$fYb`YfghYb`5iZYbh\U`h`niYf\U`hYb"$

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K Ubb. '8]Y 'VYghY 'NY]h 'ZØf'Y]bY '6cchghci f'Ui Z'XYa '9e]!; 'YhgWXYf]gh'j cb'A]hhY '\$\dangle b]'V]g'A]hhY 'GYdhYa VYfž'k Ybb'XYf'; 'YhgWXYf'g]WXYf YffY]WX h'k YfXYb'_Ubb" '8]Yg']gh'Ui WX 'X]Y 'VYghY 'NY]h 'ZØf'Y]bYb 6Ygi WX ']b'=i `]ggUhž'XU'XUg'K YhhYf'Ua 'VYghYb']ghž'i a 'K U`Y'ni VYcVUWX hYbž'ni 'k UbXYfbž'? U'U_'ni 'ZU\fYb'i bX'X]Y 'VYfØ\a hY A]hhYfbUWX hggcbbY'ni 'VYcVUWX hYb"'8]Yg']gh'Ui WX 'X]Y [YgWX ÀZh][ghY'NY]h'XYf'GU]gcb'a]h'< chY`g'i bX'@cX[Ygž'X]Y'gWXbY`` Ui gj Yf_Ui Zh'g]bXž'U`gc']gh'Yg'Ua 'VYghYbž']a 'J cfUi g'ni 'Vi WXYb"

K]Y. →W. `\UVY a Y]bY '9e]!; `YhgW\Yfl6cchghci f'VY]'K cf`X'cZ; fYYb`UbX']b'XYfYb'< Ui dhVØfcg']a 'NYbhfi a 'j cb'⇒i `]ggUh [YVi W\h"8]Y '5i gZØ[Y'Z]bXYb'hÀ[`]W\'j cb'⇒i b]'V]g'GYdhYa VYf ghUhhi bX'hfYZZYb'g]W\'i a '-"()'I\f"8]Y': U\fh'ni a '; `YhgW\Yf XUi Yfh'bcfa U`Yfk Y]gY'nk]gW\Yb'XfY]'i bX'j]Yf'Ghi bXYbž'_Ubb UVYf'Y'bUW\'6YX]b[i b[Yb'`Àb[Yf'XUi Yfb"'8Ug'6cch'V`Y]Vh'Yhk Unk Y]'Ghi bXYb'Ua '; `YhgW\Yf"

8 Yf'DfY]g'dfc'9fk UWXgYbYa 'VYhfÀ[h'&"&-)'8??'f%(\$'I G8 Ł'I bX VY]b\U`hYh'Y]b'`Y]WXhYg': fØ\ghØW_ž'XUg'_i fn'bUWX'XYf'5VZU\fh gYfj]Yfh'k]fXž'[YZc`[h'jcb'Y]bYa 'fY]WX\U`h][Yb'_U`hYb A]hhU[YggYb'_i fn'jcf'XYf'5b_i bZh'Ua '9e]!; 'YhgWXYf''?cghYb`cgYf HYY'i bX'?UZZYY'g]bX'XYb'[UbnYb'HU['ØVYf'jYfZØ[VUf"

- "U"h1 Ub "VcfX"XYf"Ye]!["YhgW\Yf!Vcchghci f" 2
- 'U`h1 Ub'VcfX'XYf'Ye]![`YhgW\Yf!Vcchghcif' 2
- 'U`h1 Ub'VcfX'XYf'Ye]![`YhgW\Yf!Vcchghcif' 2
- "U"h1 Ub VcfX XYf Ye]!["YhgWXYf!Vcchghci f" 2

8]Y 'Hci fYb 'VY[]bbYb 'j cf'XYa '< Ui dhVØfcž'k c'A]b]Vi ggY '?i bXYb hfYZZYb 'i bX'g]Y 'ni a '? U]'Vf]b[Ybž'k c'XUg'6cch'UV`Y[h''BUWW'XYf Hci f'Vf]b[Yb'? 'Y]bVi ggY'X]Y'?i bXYb 'ni 'XYb'6Øfcg'cXYf'ni 'XYb k]WW h][ghYb'< chY`g'XYf'GhUXh"

: $\emptyset f k Y]hY fY = Zcfa Uh]cbYb i bX 6i Wki b[Yb VYgi WkYb G]Y X]Y K YVg]hY j cb K cf X cZ; fYYb UbXž gYbXYb G]Y Y]bY 9! A U] Ub]bZc4 k c["[`ž fi ZYb G]Y Ž &- - '- ('(' $$ Ub cXYf _ca a Yb G]Y)$

nk]gWXYb", .\$\$"i bX"%, .\$\$"l \f"]a "6Øfc"]b"XYf"GhUXh"j cfVY]"

#W. 'V]b'j cb'@cbXcb'ØVYf'?cdYb\U[Yb']b'8ÀbYa Uf_'bUWW
? Ub[Yf'i ggi Ue'[YZc[Yb"'Jcb'Xcfh'Vi WkhY']Wk'Y]bYb'#b`UbXgZi[bUWk'=i`]ggUh'VY]'5]f'; fYYb`UbXž'X]Y']a 'K YgYbh`]WkYb'XUg
A cbcdc`'Ui Z'#b`UbXgZØ[Y']b'; fÒb`UbX'\UVYb"'6i WkYb'G]Y'ØVYf
G_mgWUbbYf"

'U`h1 2

 $FY]gYZØ\backslash fYf'ZØf'; fOb`UbX'g]bX'gWk Yf'ni 'VY_ca a Ybž'UVYf'k Ybb G]Y'HfY__]b['d`UbYbž'Ya dZY\`Yb'k]f'\Rightarrow bYb'XYb'7]WYfcbY'; i]XY'hc HfY__]b[']b'; fYYb`UbX"$

@Y]hV]`X.~5h`Ug~/~6cchg

8 A M IJ, a

6Ygi WXYb G]Y i bg Ui Z Y]bY!fY]gY "XY