

8 UWX gWX UXYb]b F UhnYVi f[.@Y]WX hj Yf`YhnhY b UWX Gi dYfa Uf_hY]b ghi fn

■ FUhnYVi f[']gh'XUg'8UWX 'Y]bYg'Gi dYfa Uf_hg'Y]b[YghØfnhž k cVY]'nk Ò`Z'A YbgWXYb'`Y]WXh'j Yf`Yhnh'k i fXYb"

FYhhi b[g_fÀZhY'gi WXYb'bUWX'k Y]hYfYb'CdZYfb"

`GWX`Ygk][!<c`ghY]b 7caaib]hm`]b`FUhnYVif[`fYU[]Yfh`UiZ GidYfaUf_hXUWX!9]bghifn

D*FUhnYVi f['\Uh'Y]b*HY]`*XYg*8UW.Yg*Y]bYg*Gi dYfa Uf_hYg*bUW. Y]bYa **U_i hYb*9]bghi fn*a]bXYghYbg*nk O`Z*A YbgW.Yb*j Yf`Yhnh"*8]Y [YbUi Y*I fgUW.Y*XYg*J cfZU``g*]gh*XYfnY]h*i bVY_Ubbh*i bX VYgW.ÀZh][h*gck c\``X]Y*6Y\OfXYb*U`g*Ui W.*X]Y*6Yj O`_Yfi b["*

`8]Y`FYU_h]cbYb`XYf`6Yk c\bYf

 $\label{thm:continuous} B \ UWX \ XYa \ "d`Ohn`]WX \ Yb \ J \ cfZU```i \ a \ "%+. %$ \ I \ f`k \ Uf'X]Y \ GWX \ cW_k \ Y``Y \]b \ XYf; \ Ya \ Y]b \ XYi \ h`]WX \ gd \ \emptyset f \ V \ Uf'``8 \]Y \ 5bk \ c \ b \ Yf \ nY][\ hYb \ g]WX \ V \ Ygcf[\ h' \ \emptyset V \ Yf \ X]Y \ G]WX \ Yf \ Y \]h \ XYf \ OZZYb \ h`]WX \ Yb \ ", \ YV \ A \ Yb gWX \ Yb \ "Ai \ "Y \ FYhYb \ "Ui \ Z \ gcn]U`Yb \ "D`UhhZcfa \ Yb \]\ fY \ 6Y \ gcf[\ b]g \ i \ b X \ ZcfXYfhYb \ "Y]b \ "i \ a \ ZUggYb \ XYi \ bhYfgi \ WXi \ b[\ z \ i \ a \ XYf \ Ufh][\ Y \ J \ cfZ\ h``Y \]b \ "Ni \ _i \ b \ Zh' \ ni \ 'j \ Yf \]b \ XYfb \ "Ofh` \ UhhYb \ z \ VYj \ cf \ g]Y \ XYb \ "Ui \ hYb \ "?b U``` XYg \ ?]b \ ghi \ fn \ Yg' [\ Y \ Ofh` \ UhhYb \ z \ VYj \ cf \ g]Y \ XYb \ "Ua \ "C \ fh` XYg'; \ YgWX \ Y \ Ybg \ "gU \ Yb \"``$

BchZÀ``Y'i bX'FYhhi b[gY]bgÀhnY

'6Y]'XYa '9]bghi fn'k i fXYb'U``Y'JYf`YhnhYb'U`g'`Y]W\h'j Yf`YhnhYb''U`g'`Y]W\h'j Yf`YhnhYb'''G]Y'\UhhYb'cVYfZ`ÀW\`]W\Y'K i bXYb'Yf`]hhYb'''K]W\h][
]ghž'XUgg'Y]b][Y'X]fY_h'j cf'Cfh'j Yfgcf[h'k YfXYb'_cbbhYbž'k À\fYbX\UbXYfY']b'Y]b'bU\Y`]Y[YbXYg'?fUb_Yb\Ui g'[YVfUW\h'k i fXYb'''8]Y\Dc`]nY]'\Uh'X]Y'9]bgUhn_fÀZhY'gcZcfh'U`Ufa]Yfhž'i bX'Y]bY'8fc\bY\k i fXY'[YgW\]W_hž'i a 'bUW\'a Ò[`]W\Yb'k Y]hYfYb'CdZYfb'ni gi W\Ybž'X]Y'a Ò[`]W\Yfk Y]gY'i bhYf'XYb'HfØa a Yfb'`]Y[Yb\ObbhYb'''

9]bghi fn'i bX'G]WXYf\Y]h

'8]Y'[YbUiY'I fgUWXY'XYg'8UWX!9]bghi fnYg']gh'V]g\Yf'i bVY_Ubbh''
8]Y'Dc`]nY]'\Uh'Yf_`Afhž'XUgg'XUg'; YVAi XY'U`g'ghUf_
Y]bghi fn[YZÀ\fXYh'Y]b[Yghi Zh'k i fXYž'k Ug'X]Y'FYhhi b[g_fAZhY
XUfUb'\]bXYfhYž'XUg'; YVAi XY'ni 'VYhfYhYb''8]Y'9fa]hh`i b[Yb'g]bX
bcW\']a'; Ub[Yž'i a'\YfUi gni Z]bXYbž'k]Y'Yg'ni 'X]YgYa'JcfZU``
_ca a Yb'_cbbhY'''\delta'XYf'Nk]gW\YbnY]h'V`Y]Vh'X]Y'G]W\Yf\Y]h'XYf
5bk c\bYf'i bX'XYf'6Ygi W\Yf'XYg'?Ui Z\Ui gYg'Y]bY'[fc\abla Y'Gcf[Y'''

'< Ai Z][Y J cfZA``Y]b XYf FY[]cb</pre>

'8Yf'JcfZU```]b'FUhnYVif['gd]Y[Y`h'Y]b'nibY\aYbXYg'DfcV`Ya'a]h
XYf'G]W\Yf\Y]h'jcb'; YVÀiXYb']b'XYf'FY[]cb'k]XYf''=aaYf'k]YXYf
_caah'Yg'ni'À\b`]W\Yb'Nk]gW\YbZÀ``Ybž'X]Y'gckc\``ZØf'X]Y
5bkc\bYf'U`g'UiW\'X]Y'6Y\ÒfXYb'ni'Y]bYa'[fc>Yb'H\YaU
[YkcfXYb'g]bX'''9g'k]fX'XYf'FiZ'bUW\'ghf]_hYfYb'?cbhfc``Yb'ibX
fY[Y`aÀ>][Yb'=bgdY_h]cbYb'XYf'; YVÀiXY'`Uihž'ia'gc`W\Y

'GWX 'ØggY 'XYf'; YgWX]WX hY

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 $\begin{tabular}{ll} \hline & F @W_V`]W_U & Z'X]Y'9fY][b]ggY'nY][h'XYf'JcfZU```XUg'YfbghY \\ & 6YX@fZb]g'bUWX'G]WXYf\Y]h']b'XYf'; Ya Y]bXY'F UhnYVi f["'BYVYb XYb'VYhfcZZYbYb'DYfgcbYb'i bX'XYfYb': Ua]`]Yb']gh'X]Y'[UbnY GhUXh']b'; YXUb_Ybž'k <math>A\fYbX'X]Y'I bhYfgi WXi b['XYg'9]bghi fnYg Zcfh[YgYhnh'k]fX"'9g'V`Y]Vh'ni '\cZZYbž'XUgg'g]WX'gc`WXY'JcfZA``Y']b Ni _i bZh'j Yfa Y]XYb'`UggYb'i bX'X]Y'G]WXYf\Y]h'Z@f'U``Y'6@f[Yf[Yk <math>A\fY$]ghYh'k]fX"''

B 5;

8YhU]`g

6Ygi WXYb G]Y i bg Ui Z b!U["XY