

9!6]_Y!: U\fYf'Z`ØW\hYh'bUW\ 5i ZZU\fi bZU``']b GW\]`XYgW\Y

BUWX 'Y]bYa '9!6]_Y!I bZU```]b'6]Y`YZY`X'gi WXh'X]Y'Dc`]nY] NYi [Yb'i bX'XYb'ZØWXh][Yb'FUXZU\fYf''<]bk Y]gY'Ub JYf_Y\fg_ca a]ggUf]Uh'%"

&- "\$+"&\$&(` '%%.))

Dc`]nY]'6]Y`YZY`X

I bZU``a]h'9!6]_Y. HÀhYf'Z`ØWX hYh']b'6]Y`YZY`X

6]Y`YZY`X`fbhgŁ

9]b 'J cfZU``ž'XYf'Ua 'GUa ghU[UVYbXž'XYb'&+"\$+"&\$&(ž']b GWX]`XYgWXY'ghUhhZUbXž'k]fZh': fU[Yb'ni 'JYf_Y\fgg]WXYf\Y]h'i bX n]j]`[YgY``gWXUZh`]WXYa '9b[U[Ya Ybh']b'XYf'FY[]cb'Ui Z'''9]b +%! 'À\f][Yf'A Ubb'k Uf'a]h'gY]bYa ': cfX'G!A UI 'Ui Z'XYf'9b[YfgWXYb GhfU» Y'i bhYfk Y[gž'U`g'Yf'd`Òhn`]WX'j cb'Y]bYa '9!6]_Y!: U\fYf [YfUa a h'k i fXY"

8 Yf J cfZU``. J Yfghc» [Y[Yb J Yf_Y\fg[YgYhnY3

; Y[Yb'&&.\$\$'I \fž'k À\fYbX'g]W\'XYf'6]Y`YZY`XYf']a '?fY]gj Yf_Y\f 5a 'DZUffUW_Yf'VYZUbXž'\ÒfhY'Yf'Y]b'Xi a dZYg'; YfÀi gW\"'6Y]'Y]bYf UbgW\`]Y \Rightarrow YbXYb' \Rightarrow bgdY_h]cb'gY]bYg': U\fnYi [g'ghY``hY'Yf'ZYghž'XUgg Y]b''\f\b[Yf'FUXZU\fYf'a]h'Y]bYa 'Ubh\fUn]hZUfVYbYb'9!6]_Y']b'gY]b: U\fnYi [\YW_'[YZU\fYb'k Uf"'5bghUhh'ni '\Y`ZYbž'Z\ØW\hYhY'XYf FUXZU\fYf'gcZcfhž'bUW\XYa 'XYf'5i hcZU\fYf'X]Y'Dc`]nY]'fi ZYb k c``hY"

8Yf: `ØWX h][Y. 'HÀhYfVYgWX fY]Vi b[

 $8 \ Yf'9!6]_Y!: U\ fYf'k \]fX'U\ g'Yhk U'' \ \$'\ \ Y\ Y'U\ h'i b X'\%,) `Wa'' [fc > VYgWk f]YVYb'''9f' \ UhhY'Y]bY'\U[YfY':][i f'i b X'hfi ['Y]b'Xi b_`Yg'H! G\]fh'gck]Y'Y]bY'Xi b_`Y'<cgY'''6YgcbXYfg'VYa Yf_Ybgk Yfh']ghž XUgg'XYf'F UXZU\fYf'U_nYbhZfY]Yg'8Yi hgWk 'gdfUWk ž'k Ug'XUfUi Z \]bXYi hYhž'XUgg'Yf'a <math>O[`]Wk Yfk Y]gY'`c_U`'j YfUb_Yfh']gh'''8]YgY 8YhU]`g'_ObbhYb'a <math>O[`]Wk Yfk Y]gY'YbhgWk Y]XYbX'XUZØf'gY]bž']\ b'ni [XYbh]Z[n]YfYb''$

8]Y 6YXYi hi b[XYf NYi [Yb

8 Yf'J cfZJ```Y[h'bU\Yž'XUgg'; Ya Y]bgW\UZh'i bX
B UW\VUfgW\UZhg\]`ZY']b'XYf'J Yf_Y\fgg]W\Yf\Y]h'j cb'[fÒ» hYf
6 YXYi hi b['g]bX"'8]Y'Dc`]nY]'6]Y`YZY`X'\Uh'bi b'Y]b'5i Zfi Z'Ub'U``Y
5 i [YbnYi [Yb'[Yf]W\hYhž'X]Y'k Y]hYfY'*bZcfa Uh]cbYb'ni 'XYa
J cfZJ```cXYf'XYa 'Z'ØW\h][Yb'9!6]_Y!: U\fYf'\UVYb'_ObbhYb"
<]bk Y]gY'k YfXYb'i bhYf'XYf'HY`YZcbbi a a Yf'\$) &%!)()!\$
Ybh[Y[Yb[Ybca a Yb"

± XYf`\Yi h][Yb`NY]h`g]bX`j]Y`Y`JYf_Y\fghY]`bY\a Yf`Ui Z`9!6]_Yg
Ub[Yk]YgYbž'k Ug`X]Y`6YXYi hi b['j cb`g]W\YfYa ': U\fYb`i bX
_`UfYb`JYf_Y\fg[YgYhnYb`i bhYfghfY]W\h"`Gc`W\Y`JcfZÀ``Y`_ÒbbYb
b]W\h'bi f`fYW\h`]W\Y`?cbgYei YbnYb`\UVYbž'gcbXYfb`Ui W\`XUg
G]W\Yf\Y]hg[YZØ\``]b`XYf'; Ya Y]bXY`YbhgW\Y]XYbX`VYY]bZi gqYb"

 $F \varnothing W_{2f}U[Yb'jcb'xifbU']ghYb'V]hhY'Ub.$

Dc`]nY]dfÀg]X]i a '6]Y`YZY`X

@Y]hi b[gghUV#DfYggY! 1 i bX 2 ZZYbh 3]WX_Y]hgUfVY]h

?ifh!GWXia UWXYf!GhfU»Y'(*

' ' * %) '6]Y `Y ZY `X

```
Gcb~U~FY\a Yfh~fGF Łž~HY~"~$) &%#) ()!' $&$
? Uh'U'? ØghYf'f?? ? Łž'HY`"'$) &%#) ()!' %-)
GUfU\ 'G]YXgWX`U[ 'fG±ž'HY`"'$) &%#) ()!' $&%
A]WXUY`? OhhYf'fA? Łž'HY`"\$) &\#)()!'$&&
< Y^*U^7 f]ghcd^fk 7 tž^HY^*^$) &%#) ()!' $&'
: UV]Ub F]W_Y``fl F Łž'HY`"`$) &%#) ()!' $&(
7 Ufc`]bY'GhYZZYb'ff7GŁž'HY`"'$)&%#)()!'$&*
9!AU]`.`dfYggYghY``Y"V]Y`YZY`X4dc`]nY]"bfk"XY
\hdg. \#V]Y`YZY`X"dc`]nY]"bfk #
5i » Yf\U`V`XYf`6ØfcX]YbghnY]h.'@Y]hghY``Yž'HY`"'$) &%#)()!$
Cf][]bU^{1}7cbhYbh^{-}jcb.^{-}Dc^{-}]nY]^{-}6]Y^{Y}ZY^{X}Z^{-}\emptyset VYfa]hhY^{-}h^{-}XifWX^{-}bYkg
U hi Y``
```

B 5;

8 Y hU]`q

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