

8]Y % \ Ài Z][ghYb 9| dUh!DfcV \ Ya Y

K]f``]ghYb'X]Y'%&'\Ài Z][ghYb'9I dUh!DfcV`Ya Y'Ui Z''8]Y'DfcV`Ya Y ZU``Yb']b'XfY]'<Ui dhVYfY]W\Y.'6Yn]Y\i b[Ybž'; Y`X'i bX ?i `hi fgW\c\W_

=a '@Ui ZY'XYg'j Yf[Ub[YbYb' ≯J\fYg'\UVYb'k]f'i bgYfY'9l dUh! I a ZfU[Y'[Ybi hnhž'i a 'F UhgW\`À[Y'ZØf'9l dUhg'i bX']\fY'@]YVYb'ni gUa a Y`bž'Ua 'VY`]YVhYghYb', 'H]ddgž'X]Y'G]Y'k]ggYb'gc``hYbž'VYj cf G]Y'[Y\Ybž'i bX'*'8]b[Yž'X]Y'G]Y'Y]bYa '9l dUh'b]W\h'gU[Yb'gc``hYb"

 $<]Yf``]ghYb`k]f`X]Y`%&`\Ài Z][ghYb`9IdUh!DfcV`YaYUiZ`+bhYfBUh]cbg`VfY]hYf`9IdUh!+bg]XYf!IaZfU[Y"$

8]Y'6YZfU[hYb'''%("\$\$\$'jcb'%ž-'A]``]cbYb' ₺hYfBUh]cbg!
A]h[`]YXYfb'k Y`hk Y]h'''VYbUbbhY'DfcV`Ya Yž'X]Y'[fcV']b'XfY]
<UidhdfcV`Ya VYfY]WXY'ZU``Yb.'6Yn]Y\ib[Ybž'; Y`X'ibX
?i`hifgWXcW_"'K]f'X]g_ih]YfYb'X]YgY'H\Ya Yb'ibhYbž'VYjcf'k]f

$8]Y\%\& \dot Z[ghYb 9]dUh!DfcV`Ya Y$

'U'h1 9| dUh!DfcV'Ya Y! = DZc[fUZ]_!& 2

6Yn]Y\ib[Yb

8 Ugʻ[fÒ» hYʻDfcVʻYa ʻZØfʻ9I dUhgʻ]ghʻXYfʻJ Yfʻi ghʻ]\fYfʻdYfgÒbʻ]WXYb I bhYfghØhni b[gbYhnk Yf_Y"¸ VYfʻX]Yʻ<ÀʻZhYʻXYfʻ6YZfU[hYbʻf]) &ʻi Ł [UVʻUbžʻXUggʻX]YgʻXUgʻ[fÒ» hYʻDfcVʻYa ʻgY]žʻXYa ʻg]YʻVY[Y[bYh gY]Ybžʻi bXʻbUbbhYʻYgʻY]bYʻXYfʻ[fÒ» hYbʻ<YfUi gZcfXYfi b[YbžʻbYi Yʻfi bXYʻ]bʻY]bYa ʻbYi Ybʻ@UbXʻni ʻZ]bXYb"ʻFca Ubh]gWXY6Yn]Y\i b[YbʻY]XYbʻUi WXʻXUfi bhYfž'XUʻʻ, 'i ʻXYfʻUʻY]bghY\YbXYb6YZfU[hYbʻgU[Ybž'XUggʻXUgʻ9IdUhl@YVYbʻY]bYʻfca Ubh]gWXY6Yn]Y\i b[ʻgWkk]Yf][Yfʻa UWXh"

8]Y'cVYb'Yfk À\bhY'i bX'_cghYb`cg'VY]hfYhYbXY' \$\hYfBUh]cbg'\Uh Y]bY'[`cVU`Y'A]h[`]YXgW\UZhii bX'j YfUbghU`hYh'XUg'[UbnY'\$\\f'ØVYf ØVYf'("\$\$\$'JYfUbghU`hi b[Yb"'9g']gh'Y]b'[fc>Ufh][Yf'Cfhžii a 'bYi Y : fYi bXY'ni 'Z]bXYb'cXYf'AYbgW\Yb']b'Y]bYf'À\b`]W\Yb'G]hi Uh]cb'ni hfYZYb"

K Yf'a]h'Y]bYa '9\YdUfhbYf'i a n]Y\hž'ghY\h'j cf'Y][YbYb DfcV`Ya Yb"'9]b][Y'VYZØfW\hYbž'XUgg']\f'DUfhbYf'cXYf']\fY': Ua]`]Y a]h'XYf'9bhgW\Y]Xi b['b]W\h'[`Ø_`]W\ni 'gY]b'gW\Y]bYb"'9]b fY]gYbXYf'9\YdUfhbYf'_Ubb'Xi fW\Ui g'Y]bY'?Uff]YfY'Ui Z[Y[YVYbi b\X'9]b_ca a Ybgj Yf`i ghY'Yf`]hhYb'\UVYbž'k Ug'X]Y 6Yn]Y\i b[gXmbUa]_'VYY]bhfÀW\h][Yb'_Ubb"

9]b'[fc»Yf'HY]`'XYf'fY]gYbXYb'9\YdUfhbYf'fk')'ı Ł']gh'i bni Zf]YXYb a]h'XYf'Z]bUbn]Y``Yb'5V\Àb[][_Y]h'j cb']\fYa 'DUfhbYf'i bX'()'ı g]bX'VYgcf[h'ØVYf'XYb'JYf'i gh'XYf'Z]bUbn]Y``Yb'l bUV\Àb[][_Y]h''

5bXYfY: U_hcfYb'_ObbYb'g]W\'YVYbZU``g'bY[Uh]j 'Ui gk]f_Yb.') &`i XYf'fY]gYbXYb'9\YdUfhbYf'[YVYb'Ubž'XUgg']\f'DUfhbYf']a a Yf'j]Y`YGhi bXYb'UfVY]hYhž') %`i 'ZØ\`Yb'g]W\'j cb']\bYb'Yfk UfhYhž'U``YdfU_h]gW\Yb'5gdY_hY']\fYg'@YVYbg']a '5i g`UbX'ni 'cf[Ub]g]YfYbž

 $\label{eq:continuous} i \ b \ X \ \& + \ i \ Z \ X \ b \ g \ X \ U \ Z \ f \ b \ X \] \ f \ Y \ g \ X \ Y \ M \ hg \ X \] \ g \ X \ g \ X \ Y \ hU \ g \ X \ g \ X \ Y \ hU \ g \ X \ g \ X \ Y \ hU \ g \ X \ g \ X \ Y \ hU \ g \ X \ g \$

; Y`X

(\$`DfcnYbh'U``Yf'6YZfU[hYb'a UW\Yb'g]W\`Gcf[Yb'ia']\fYni_ØbZh][Yb':]bUbnYb"'9g'ØVYffUgW\h'b]W\hž'XUgg'X]YgY'NU\`ghY][hž'k Ybb']\f'bYi Yg'@UbX'a]h'k]fhgW\UZh`]W\Yb'DfcV`Ya Yb'ni_Àa dZYb'\Uh'f]b'; f]YW\Yb`UbX'ghY][h'X]YgY'NU\``Ui Z'+%'i \t'

8 Yf'Ni [Ub['ni 'F YbhYb!'i bX'UbXYfYb'5b`U[Ydfc[fUa a Yb'_Ubb VY]'XYf'5fVY]h']a '5i g`UbX'i bhYfVfcW.Yb'cXYf'VYY]bhfàW.h][h k YfXYb'i bX']gh'Y]b'\ài Z][Yg'Z]bUbn]Y``Yg'DfcV`Ya 'i bhYf'9l dUhg" 8]Y'6YZfU[hYb'gcf[Yb'g]W.'Ui W.'i a 'X]Y'5i g[UVYb.'' \$'i 'XYf VYZfU[hYb'9l dUhg'VYf]W.hYbž'XUgg'g]Y'; Y`X'j Yf`]YfYbž'k Ybb'g]Y']bg 5i g`UbX'n]Y\Yb'i bX'UfVY]hYb"

K Y]hYfY`Z]bUbn]Y``Y`DfcV`Ya Y`g]bX`GW\k]Yf][_Y]hYb`VY]`XYf 5bdUggi b[`Ub`Y]b`bYi Yg`5fVY]hgi a ZY`X`i bX`XUg`: Y\`Yb`Y]bYg VYfi Z]W\Yb`BYhnk Yf_g"`\d\'\d\b`]gh`X]YgYg`DfcV`Ya `VYgcbXYfg k Y]h'j YfVfY]hYhž'k c`ZUgh`X]Y`<À`ZhY`U``Yf`6YZfU[hYb`f\(, `\d\'\Ub\[)Vhž XUgg`g]Y`a]h'XYa``c_U`Yb`; YgW\AZhgi a ZY`X`ni`_Aa dZYb`\UVYb"

?i `hi fgWkcW_

CVk c\``k Yb][Yf'dfca]bYbh'U`g'X]Y'cVYb'[YbUbbhYb'6YfY]WXYžÀi »YfhY'Y]b'J]YfhY`'U``Yf'9IdUhg'6YXYb_Yb'\]bg]WXh`]WX'XYf 5bdUggi b['Ub'X]Y'?i `hi f']\fYg'bYi Yb'@UbXYg"'GWXk]Yf][_Y]hYb VY]a '9f`YfbYb'XYf'bYi Yb'GdfUWXY'k i fXYb'U`g'6Y`Ughi b[YadZibXYbžY]b'DfcV`Ya ž'XUg'j cb'&*'i 'U``Yf'6YZfU[hYb Ub[YqdfcWXYb'k i fXY"

I bhYfXYggYb 'gU[hYb'&&'i ž'XUgg'XYf'?i 'hi fk UbXY`'Y]b'[fÒ» YfYf GW\cW_'k Ufž'U`g'g]Y 'Yfk UfhYh'\UhhYbž'&%'i 'gU[hYbž'XUgg'g]Y 'XUg 9I dUh!@YVYb 'gUhh'\ÀhhYbž'k À\fYbX'_`Y]bYfYž'UVYf']a a Yf'bcW\g][b]Z]_UbhY '%\$'i 'gU[hYbž'XUgg'XYf'I a ni [']bg'5i g`UbX'gW\`YW\h ZØf']\fY'dgmW\]gW\Y'; Ygi bX\Y]h'[Yk YgYb'gY]"

@UXYb^G]Y^XYb^j c^gh\bX][Yb^9I dUh! \pm bg]XYf!6Yf]W\h^&\$%) \Yfi bhYf"

@Y]hV]`X.`8fYUa gh]a Y

.

•

8 Y hU]`g

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