

A Ø``gØbXYf']b'HUi VYfV]gWkcZg\Y]a . ? UhnYbghfYi ']``Y[U``]a 'K U`X'Ybhgcf[h

 $\label{eq:continuous} $$ \stackrel{\text{\tiny ``}}{=} Y[U`Y`A \varnothing``UV`U[Yfib[`]b`HUiVYfV]gW.cZg\Y]a.`Dc`]nY] $$ gi W.h.bUW.'<]bk Y]gYb'ni 'Ybhgcf[hYa '?UhnYbghfYi 'ibX N][UfYhhYb_]ddYb"$

9]b '6`]W_'Ui Z'X]Y']``Y[U`Y'A Ø``Ybhgcf[i b[']b HUi VYfV]gW\cZg\Y]a

< Y]`Vfcbb fchgŁ

8Yf'JcfZU``

± `XYf`a U`Yf]gWXYb`I a [YVi b['j cb`HUi VYfV]gW\cZg\Y]a
YfY][bYhYb`g]WX`]b`XYb``YhnhYb`HU[Yb`VYgcf[b]gYffY[YbXY
JcfZÀ``Y`XYf`]``Y[U`Yb`A Ø``Ybhgcf[i b["I bVY_UbbhY`HÀhYf`\UVYb
j cb`A]hhk cWXUVYbX`V]g`GcbbhU[`nU\`fY]WXY`5VZÀ``Yž`]bgVYgcbXYfY
? UhnYbghfYi ii bX`N][UfYhhYb_]ddYbž`]a 'K U`X`UV[Y`Y[h"`8]YgY`5fh
XYf`A Ø``Ybhgcf[i b['k]fZh`b]WXh`bi f`: fU[Yb`ni f
I a k Y`hj YfgWXa i hni b['Ui Zž`gcbXYfb`ghY``h`Ui WX`Y]b`YfbghYg
DfcV`Ya 'ZØf`X]Y``c_U`Y`; Ya Y]bgWXUZh`XUf"

I a k Y`h!'i bX'; Ya Y]bgW\UZhgUi gk]f_i b[Yb

8]Y'5V`U[Yfi b['j cb'%' \$'@]hYfb'Zf]gWXYa '? UhnYbghfYi 'i bX'Yhk U '\$\$'N][UfYhhYb_]ddYb']b'XYf'BUhi f'\Uh'Yf\YV`]WXY'bY[Uh]j Y 5i gk]f_i b[Yb'Ui Z'X]Y'I a k Y`h''Gc`WXY'<UbX`i b[Yb'gWXÀX][Ybb]WXh'bi f'X]Y': `cfU'i bX': Ui bUž'gcbXYfb'_ÒbbYb'Ui WX'X]Y @YVYbgei U`]hÀh'XYf'5bk c\bYf'VYY]bhfÀWXh][Yb'''9]b'gUi VYfYg'i bX

[YdZY[hYg'l a ZY`X']gh'k]Wkh]['ZØf'X]Y'; Ygi bX\Y]h'XYf 6Yj Ò`_Yfi b['i bX'XYb'9f\U`h'XYg'BUhi ffUi a g"'8]Y']``Y[U`Y A Ø``Ybhgcf[i b['_Ubb'`c_U`Y'^2 _cgmghYa Y'[YZÀ\fXYb'i bX'X]Y c\bY\]b'gWkcb'VY`UghYhYb'FYggci fWYb'XYf'; Ya Y]bXY'k Y]hYf VY`UghYb"

9]b 5i Zfi Z'ni f A]h\]`ZY

8]Y'Dc`]nY]'HUi VYfV]gW\cZg\Y]a '\Uh'U``Y'6Øf[Yf'Ui Z[Yfi ZYbž
j YfXÀW\h][Y'6YcVUW\hi b[Yb'ni 'a Y`XYb"'8 Ug'ni ghÀbX][Y
: UW\[YV]Yh'ZØf'; Yk YfVY'i bX'l a k Y`h'ghY\hi bhYf'XYf
HY`YZcbbi a a Yf'\$-' (%', %\$'ni f'JYfZØ[i b["'J]Y``Y]W\h'\UVYb
5bk c\bYf'<]bk Y]gY'Ui Z'X]Y'HÀhYf'cXYf'[YgY\Ybž'k]Y'XYf'A Ø``
UV[Y`UXYb'k i fXY"'\XXY'\DZcfa Uh]cb'_Ubb'\]`ZfY]W\gY]bž'i a 'XYf
l a k Y`hj YfgW\a i hni b['Ybh[Y[Ybni k]f_Yb"

8Yf?cbhYlhX]YgYfDfcV`YaUh]_

=`Y[U`Y`A Ø``Ybhgcf[ib[']gh'Y]b`k UW\gYbXYg`DfcV`Ya ']b'j]Y`YbFY[]cbYb'8YihgW\`UbXg"'8]Y'ghY][YbXY'JYfUbhk cfhib['XYf6@f[Yf']b'6Yni['UiZ'bUW\U`h][Y'9bhgcf[ib['ibX'FYWhW]b[b]aah']aaYf'aY\f'Ub'6YXYihib['ni"'8]YgY'JcfZ\``Y'nY][Yb'X]YBchk YbX][_Y]h'ZØf'5iZ_`\Afib['ibX'AU\bU\aYbž'ia'X]Y6Yj\O`_Yfib['\@VYf'iakY`hZfYibX`]W\Y'DfU_h]_Yb'ni']bZcfa]YfYb''GW\i`Yb'ibX'`c_U`Y'Cf[Ub]gUh]cbYb'_\ObbYb'XUVY]'\Y`ZYbž'Y]b6YkigghgY]b'ZØf'XYb'GW\ihn'XYf'BUhif'ni'gW\UZZYb''

: Un]h

 $8]Y'_\emptyset fn`]WXYb`JcfZA``Y']b`HUiVYfV]gWXcZg\Y]a `g]bX`Y]b\\ U`Ufa]YfYbXYg`NY]WXYb`Z\\emptyset f`X]Y'<YfUigZcfXYfib[Ybž`XYbYb`g]WXX]Y`lakY`h'\YihnihU[Y'[Y[Yb\ØVYfg]Y\h''9g``]Y[h']b`XYf\\ JYfUbhkcfhib[``YXYg`9]bnY`bYbž`X]Y`BUhif`ni`gWX\AhnYb`ibX`nigWX\ØhnYb''`\LambdafY`A]h\]`ZY`_Ubb`YbhgWXY]XYbX`gY]bž`X]Y`f]WXh][YbGWXf]hhY`nif`KU\fib[`XYf`lakY`h'ni`ibhYfbY\aYb`ibX`Y]bYqUiVYfY`Ni`ibZh`Z\Øf`U``Y`ni`[Yk\A\f`Y]ghYb''$

8 Y hU]`c

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'b!U["XY