

<U``c'@cbXcb

G]YVnY\b'@ÀbXYfž'j]Yf'?cbh]bYbhYž'Y]bY']bhYfbUh]cbU`Y 8Uhi a g[fYbnY'i bX'Y]bY'_ca d`YhhY'K Y`hi a fi bXi b['gdÀhYf'g]bX k]f'ni '<Ui gY

 $K]f'g]bX'Ni \Ui gY"$

K]f`\UVYb`]a '5i [i gh``YhnhYb`\J\fYg`5VgW\]YX`[Ybca a Yb" G]YVnY\b`@ÀbXYfž'j]Yf`?cbh]bYbhYž'Y]bY`]bhYfbUh]cbU`Y 8Uhi a g[fYbnY`i bX`Y]bY`_ca d`YhhY`K Y`hi a fi bXi b[`gdÀhYf`g]bXk]f`ni '<Ui gY"

 $8]Y `8]b [Y `g]b X `Ub XY fg" `6cf]g `6] _Y g `g]b X `Yhnh `fch" `8]Y `Hcf] Y g \\ \lor UV Y b `X]Y `A Y \lor f \lor Y]h" `I b X `F c V Y fh `D Y ghcb `k i W g Y b `< UU f Y "$

A ÀbbYf'k]f_Yb'[fÒ» Yf"': fUi Yb'g]bX'[`Ua ci fÒgYfž'UVYf'XUg'XYb_Y]WX'j]Y``Y]WXh'Yfgh'bUWX'Y]bYa '\\J\f']b'K UbXYf_`Ua chhYb"': YfgYb"; chhž'g]Y'ZØ\`Yb'g]WX'[fc» Ufh]['Ub"'D`Òhn`]WX'V]b']WX'k]YXYf

Y`Y[Ubh"IbX`XUbb`hib`g]Y`bUhØf`]W\kY\ž'UVYf`nia`HYiZY`ž'g]YkYfXYb`a]W\jcb`7\Uf]b[`7fcgg`bUW\GU[Uf`Vf]b[Ybž'kc']W\a]W\a]h: fYibXYb`nia`5VYbXYggYb`hfYZZY"

 $8]Y' <]dghYf! \pm j Ug]cb ``Uh'GhYdbYm'; fYYb'YffY]W\h''Cgh!@cbXcb [Y\Ofh'b]Ya UbXYa ž'UVYf']W\'V]b'hfchnXYa 'hYff]hcf]U`''$

±W. Xi fW. ZcfghY X]Y @ÀXYb bUW. Y]bYf'_b]Y`Ub[Yb Ghf]W_′UW_Yž
a Y]bY 'U`hY bc W. Y]b[YdUW_h" ±W. '_Ubb A i hhYf'i ba Ò[`]W. 'gY\Ybž
c\bY a Y]bY '≯Ubg'ni ni XYW_Ybž'i bVYgW.Y]XYbž'k Ybb 'g]Y 'bUW_h
]gh" G]Y '_Øggh'a]W. 'ni f'6Y[fØ» i b["

 $9Y'_]h\ U'cVYghU'cmgY\ VY\ 3'g]Y'[fØ\ h'a]W\&"'K Ug']gh'XUg'ZØf'Y]bGhUUh3'G]Y'VYn]Y\ h'g]W\&'Ui Z'XYb'HY]bhž'XYb'g]Y'a]f'j YfYfVh'\UhžXYb']W\&'gc'UW\&h'cg'a]h'GcbbY'VYgW&aihhh'\UVY'''G]Y'ZØ\fh'a]W&\]bY]b"$

9g'[]Vh'_Y]bY'HfÀbYb"'HfÀbYb'g]bX'b]W\h'i bgYf'8]b["'8]Y''Øb[ghYa Y]bYf'ZØbZ'GW\k YghYfb']gh''Yhnh'j Yf\Y]fUhYh'''9]b''UbXYfYf'\Uh'Y]bbYi Yg'?]bX"'K]f'5VXi ``U\g'g]bX'b]W\hg'U`g'\Y]fUhgZ\\]['i bXZfi W\hVUf"

 $8]Y' <]dghYf! \\ \neq j \ Ug]cb' \setminus Uh'GhYdbYm'; \ fYYb'YffY]Wh''Cgh!@cbXcb \\ [Y \setminus Ofh'b]Ya \ UbXYa \ \check{z}'UVYf']Wh'V]b'hfchnXYa 'hYff]hcf]U''' \\ \neq W \setminus [Y \setminus Y'] \\ \emptyset \lor Yf'XYb'?]fWh \setminus CZ'j \ cb'Gh''8i \ bghUb''i \ bX'Yg'VYfi \ h'a]Wh'' \ A \ [Y \setminus Y'gWh'bY''Yf'Ub'XYf'6Yb' & \ bgcb'FcUX'j \ cfVY]''' A]h'' \ V]b']Wh'ni 'U'hz'i a 'a]Wh'Ub'GhfU \ YbYW_Yb'j \ cb' \ b[Yb \ VY'Agh][Yb'ni '`UggYbz'UVYf'9f]bbYfi b[Yb'g]bX'ghAf_Yf'U'g A i g_Y'bz'U'gc'VYgWh'Yi b][Y']Wh'hfchnXYa 'a Y]b'HYa \ dc''$

#W. 'VYcVUW hY 'DYbX`Yf']b 'XYf'@cbXcbYf'I !6U\b'i bX'X]Y
GY`Vgh[YZÀ``][_Y]h'Y]bYg'FY]gYbXYb'ghY][h']b'a]f'Ui Z''9g'gd]Y`h
_Y]bY'Fc``Yž']W 'nØW h][Y']\fY'9]`Y' 'UVYf'X]Y'K U\f\Y]h']ghž'XUgg'Yg
gc']gh"'8]Y'A YbgW Yb'\UVYb'bcW '@YVYb'ni '`YVYb"'B]Ya UbX'k Y]»
i bX'b]Ya UbX'_Øa a Yfh'Ygž'XUgg']W 'gc'`Ub[Y'k Y['k Uf'cXYf'XUgg
]W 'X]Y'8]b[Y'UbXYfg'gY\Y"

 $6 \, \text{U'X'VfYW} \, \text{Yb'k} \,] \, \text{f'Z} \, \text{Øf'i} \, \, \text{bgYfY'dUUf'A cbUhY']} \, \text{b':} \, \, \text{fUb_fY]} \, \text{W'Ui} \, \, \text{Z\'z'U`gc} \, \text{gc} \, \text{gr} \, \text{g$

i a Ufa Y']W\ '@cbXcb'gc'ZYgh']W\ '_Ubb"'=\W 'YggY"'C\ž']W\ 'YggY'i bX i bX'YggY'i bX'YggY"'6Ub[U`cfY'9I dfYgg']b'XYf'6Ub_ž'?Uh]'Fc``

7 ca dUbm']a 'Cl ZcfX'7]fW' gž'@U\cfY'?YVUV'< ci gY']b'K\]hYW\UdY`ž

NYYfU']b'A]`Y'9bX"'I a 'X]Y'JÒ``YfY]'Ui gni [`Y]W\Ybž'`Ui ZY']W\'Ub

? UbÀ`Yb'Ybh`Ub["'=\W\'a U\W\Y'a Y]bYb'YfghYb'Gi V!' \$') _"'=\W\'V]b

Z[hhYf'U`q']W\'VYZØfW\hYh`\UVY"

#W. ij YfVf]b[Y" : #W. i_Ui ZY : 9ghÅY : @Ui XYf:5Xj UbW X:B][\h:FYdU]f
i bX:H\]Yffm:A i [`Yfg:5b[Y``i bX:J]j]gWU``J]hUa]b_UdgY`b i bX:Y]bY
j]Y`gY]h][Y:]hU`]Yb]gWXY:HfU[YhUgWXY":G]Y:gWX`i W_Yb : <i bXYfhY:Ui g
a Y]bYa : 6UW_! < ca Y!Di ZZYf'i bX:k]XYfgdfYWXYb:XYf'D\]`cgcd\]Y
XYg:FY]gYbXYbž'UVYf'XUg'a UWXh'a]f'b]WXhg'Ui gž'k Y]``]WX 'a]WX:gY]h
gY\f``Ub[Yf'NY]h'b]WXh'a Y\f'UVgc`i h'gUi VYf'i bX'j c``_ca a Yb
gWX Ob'[YZØ\`h'\UVYž'i bX'Yhnh'hi Y']WX 'Yg"</pre>

#W. 'VYgi WXY'XYb'F]WXacbX'DUf_'i bX'VYcVUWXhY'<]fgWXY'VY]a
< Yfi a ghfY]ZYb"' #W.'[Y\Y']b'XYf'8ÀaaYfi b['ØVYf'X]Y'K UhYf`cc
6f]X[Y'i bX'VYcVUWXhYž'k]Y'g]WX'X]Y'G_m`]bYg'i bhYf'XYf
GdÀhgcaaYfgcbbY'j YfXi b_Y`b"' #W.'gdØfY'XUg'Gi aaYb'i bX'XYb
< YfngWX`U['aY]bYf'< Y]aUhghUXh'i bX']WX'gdØfY'Y]b'; `ØW_ž'XUg'h]YZ
i bX'h]YZ[fØbX][']gh"</pre>

 $< U``c\check{z}`@cbXcb\check{z}`k\ Y]bY`]WV``Y]gY"`9g`]gh`gc\check{z}`gc`gWV``Ob\check{z}`ni``< Ui\ gY`ni\ gY]b"$

JYfm'6f]h]g\'DfcV`Ya g 'j cb'FcV'HYa d`Y']gh'Y]b'i f_ca]gW\Yf 9]bV`]W_']b'X]Y'Vf]h]gW\Y'DgmW\Yž'XYf'nY][hž'k]Y'k]f'Y]bY'BUh]cb j cb'gcn]U`i bVY\c`ZYbYbž'UVYf'k c\`a Y]bYbXYb'Gd]bbYfb'g]bXž X]Y'YXYb'HU['XUfi a '_Àa dZYbž'Yg'ni 'ØVYfghY\Ybž'c\bY'g]W\'VY] Y]bYa '`YV`cqYb'CVY_h'ni 'YbhgW\i `X][Yb"

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

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