Jc]h'5i hca ch]j Y']b'Gh"'=b[VYfh.'&\$i DYfgcbU`UVVUi 'bUW\'=bgc`j YbnUbhfU[°

Jc]h'5i hca ch]j Y`]b`Gh"' ⊕[VYfh'a Y`XYh' ⊕gc`j Ybn'Ub. DYfgcbU`UVVUi 'i bX'A U» bU\a Yb'ni f'?cbgc`]X]Yfi b[[Yd`Ubh"



Gh" =b[VYfhž8Yi hgWX`UbX'!8]Y @U[Y'VY]a 'Gh" =b[VYfhYf5i hca cV]`ni`]YZYfYfJc]h'5i hca ch]j Y'V`Y]Vh'Ub[YgdUbbh"

BUWXXYa 'XUg'I bhYfbY\a Yb' =bgc`j Ybn'Ub[Ya Y`XYh'\Uhžg]bX'X]Y

A]hUfVY]hYf'k Y]hYf\]b'a]h'[fc»Yf'I bg]WXYf\Y]h'_cbZfcbh]Yfh" 5a

%\$"'***`]'ZUbX'Y]bY'6Yhf]YVgj YfgUa a`i b['ghUhhž'X]Y'Ui Z[fi bX'XYf\Y]»Yb'HYa dYfUhi fYb'i a 'Y]bY'K cWXY'j YfgWxcVYb'k YfXYb

a i gghY"8]Y'JYfgUa a`i b['X]YbhY'XUni ž'X]Y'6Y`Y[gWXUZh'ØVYf'X]Y
U_hi Y``Y'G]hi Uh]cb'i bX'X]Y'_ca a YbXYb'GWXf]hhY'ni ']bZcfa]YfYb"

=a '5df]``k UfYb'VYfY]hg'XfUgh]gWXY'A U» bU\a Yb'Ub[Y_ØbX][h
k cfXYbžX]Y'Ui Z'Y]bY'XYi h']WX'j YfgWX`YWXhYfhY'k]fhgWXUZh`]WXY
@U[Y'\]bk Y]gYb"

8Yf'DYfgcbU`UVVUi 'k]fX']b'nkY]'D\UgYb'YfZc`[Yb"'8]Y

6Y`Y[gW\UZhž'X]Y`i fgdfØb[`]W\'-&\\$`A]hUfVY]hYf'i a ZUgghYž'gc```V]g
9bXY`5df]``Ui Z'Yhk U'+(\\$`fYXi n]Yfh`k YfXYb"`8]YgY`FYXi _h]cb'j cb
Yhk U'&\\$\ `XYf`6Y`Y[gW\UZh`YfZc`[h`b]W\h`bi f`Xi fW\
VYhf]YVgVYX]b[hY'?ØbX][i b[Ybž'gcbXYfb'Ui W\'Xi fW\'ZfY]k]``][Y
?ØbX][i b[Yb'i bX`FYbhYbØVYfhf]hhY"`Fi bX`%(\\$`UfVY]hgZÀ\][Y
A]hUfVY]hYf`Yf\U`hYb'Y]b`5b[YVchž']b'Y]bY`HfUbgZYf[YgY``gW\UZh`ni kYW\gY`bž'i a `X]Y`, VYf[Ub[gnY]h`ni `ØVYfVfØW_Yb"

<]bhYf[fØbXY XYf =bgc`j Ybn</pre>

Jc]h:5i hca ch]j Y:\UhhY:_Øfn`]W\:Y]bY:[YgW\Y]hYfhY:, VYfbU\a Y
Xi fW\:Y]b:W\]bYg]gW\:Yg:I bhYfbY\a Yb:ni 'j YfnY]W\:bYbž'k Ug:XYb
Z]bUbn]Y:`Yb:8fi W_:k Y]hYf'j YfghÀf_h:\Uh":8]Y:i b[Yg]W\:YfhY
5i ZhfU[g`U[Y:i bX:X]Y:]bghUV]:Y:9bhk]W_`i b[:]b:XYf
5i hca cV]`]bXi ghf]Y:g]bX:k Y]hYfY:: U_hcfYbž:X]Y:ni :X]YgYf
gW\:k]Yf][Yb:G]hi Uh]cb:[YZØ\:fh:\UVYb":Ni gÀhn`]W\:k]f_Yb:g]W\:X]Y
ghY][YbXYb:NÒ`Y:XYf:I G5:bY[Uh]j:Ui Z:XUg:I bhYfbY\a Yb:Ui gž:k Ug
XYb:<UbX`i b[gXfi W_:Yf\:O\:h"

8]Y 'Ni _i bZh'j cb'J c]h'5i hca ch]j Y 'V`Y]Vh'i b[Yk]ggži bX'Yg'V`Y]Vh UVni k UfhYbž'k]Y 'g]W\ 'X]Y 'U_hi Y``Yb' < YfUi gZcfXYfi b[Yb'Ui Z'X]Y 6Y`Y[gW\ UZh'i bX'X]Y 'k]fhgW\ UZh`]W\ Y 'G]hi Uh]cb'XYg'I bhYfbY\a Ybg `Ub[Zf]gh]['Ui gk]f_Yb'k YfXYb"'8]Y 'VYj cfghY\YbXYb 9bhgW\ Y]Xi b[Yb'i bX'A U» bU\a Yb'k YfXYb'YbhgW\ Y]XYbX'gY]bž'i a Y]bY'GhUV]`]g]Yfi b['ni 'YffY]W\ Yb'i bX'a Ò[`]W\ Y'DYfgdY_h]j Yb'ZØf X]Y'6YgW\ ÀZh][hYb'ni 'gW\ UZZYb"

 $: \emptyset f `k Y] h Y f Y ` + b Z c f a U h] c b Y b `ni f `G] h i U h] c b `V Y f] W h Y h `G U U f V f \emptyset W Y f$

NY]hi b['ØVYf'X]Y'9bhk]W_`i b[Ybž'k À\fYbX'A UgW]bYba Uf_h ni gÀhn`]W\Y'8YhU]`g'ni 'XYb'DYfgcbU`a U» bU\a Yb'`]YZYfh"

8 YhU]`g	
Cfh	Gh": ±b[VYfhž'8YihgW\`UbX
EiY``Yb	• k k k "gUUfVfi YW_Yf!nY]hi b["XY
	 k k k "a UgW\]bYba Uf_h"j c[Y`"XY

6Ygi WXYb G]Y i bg Ui Z. a Y]b!k]Yb bYh