

< Ua Vi f[g`YfghY`GWXi `ghfU» Y`]b '; YZU\f. DfchYghY`XYf`9`hYfbZcfa 'V`Y]VYb 'Ui g°</pre>

9`hYfb'i bX'JYfVÀbXY'dfchYgh]YfYb'[Y[Yb'XYb'Ghcdd'XYfGWi `ghfU»Y'Ub'XYf'FY``]b[Yf'GhfU»Y']b'9]a gVØhhY`ž'i a?]bXYf'q]WXYf'ni f'GWi `Y'ni 'Vf]b[Yb"



FY``]b[Yf'GhfU»Yž'&\$&) + '< Ua Vi f[ž'8Yi hgW\`UbX'!'\delta < Ua Vi f[ž'8Yi hgW\`UbX'!'\delta < Ua Vi f[VU\bhg]W\Y]b`\Y]»Yg'H\Ya U'Ub. '8Yffch![fØbY'GYbUh\Uh'YbhgW\]YXYbž'X]Y'YfghY'GW\i`ghfU»Y'Ub'XYf'; fi bXgW\i`YFY``]b[Yf'GhfU»Y'Ui Z'9]g'ni '`Y[Yb"'8]Yg'ghÒ» h'Ui Z'a Ugg]j YDfchYghY'j cb'JYf_Y\fgj YfVÀbXYb'i bX'9`hYfb]b]h]Uh]j Ybž'X]Y'g]W\ZØf'g]W\YfY'GW\i`k Y[Y'ghUf_a UW\Yb"'8Ybb'X]Y'nY]hbU\Y
I a gYhni b['XYf'j Yf_Y\fgVYfi\][hYb'NcbY'gc``hY']a ': fØ\'U\f'&\$&)ghUhhZ]bXYbž'XcW\'XYf'I a VUi 'k i fXY'[Yghcddhž'XU'?Zn!DUf_d`AhnYVYhfcZZYb'g]bX"'9]b'A cfUhcf]i a 'ZØf'XYb'5VVUi 'X]YgYf'DUf_d`AhnYžZYgh[Y`Y[h]a ' A UghYfd`Ub'DUf_Yb ž'\Uh'X]YgYb'DfcnYgg'UVfi dh ni a 'Gh]``ghUbX'[YVfUW\hž'k]Y'XYf'58: 7'<Ua Vi f['VYf]W\hYh"

8]Y'VYhfcZZYbYb'5bkc\bYf'ibX'?]bXYf'[Y\Yb'UiZ'X]Y'6Uff]_UXYb"

9]b'6ØbXb]g'Ui g'XYa '9`hYfbfUh'XYf'FY``]b[Yf'GhfU»Yž'XYa '58: 7
i bX'XYf' = b]h]Uh]j Y'? I FG': 5 < FF58GH58H'gYhnh'g]W. 'YbhgW.]YXYb
ZØf'X]Y'FYU`]g]Yfi b['XYg'Dfc Y_hg'Y]b''' 8]Y'G]W.Yf\Y]h'XYf
GW.Ø`Yfl]bbYb'i bX'X]Y'JYfVYggYfi b['XYf'5i ZYbh\U`hgei U`]hÀh'j cf
XYf'GW.i `Y'gc``hYb'k]W.h][Yf'gY]b'U`g'DUf_d`ÀhnY ž'Vf]b[h'Yg
A Uf]Y_Y'GUbXYf'j ca '9`hYfbfUh'Ui Z'XYb'Di b_h''8 Ug'gdf]W.h'Ui W.
X]Y'Gcf[Yb'XYf'GW.Ø`Yf]b'GY`a U'Ui g'\J\f[Ub['*'Ubž'X]Y'g]W.'ØVYf
X]Y'j Yf`cfYbYb'\JYb'i bX'X]Y'I bg]W.Yf\Y]h'XYg'Dfc'Y_hg'VY_`U[h''

G]WXYfYKY[YZØfX]Y >Øb[ghYb

8]Y:cfXYfib[Yb:bUW.'g]W.YfYb'GW.i k Y[Yb'g]bX'b]W.hibYi "6YfY]hg']a '\$J\f'&\$&&'\UVYb'?]bXYf'VY]'Y]bYf'DfchYghU_h]cb'j cf XYf'JYf_Y\fga]b]ghYf_cbZYfYbn'ZØf'GW.i `ghfU» Yb'd`ÀX]Yfh"' \$\text{8} \text{i hgW.`UbX'j Yf`YhnhYb'g]W. fi bX'&\$") \$\text{\$?'}]bXYf']a '5`hYf'j cb'* V]g'%('\text{\$J\fYb'VY}]'JYf_Y\fgi bZ\hankler{\text{\$\fertion}} Yb\fy') \$\text{\$\fertion} Y\formalfon' Yb\fy' Y\fy' Y\fgi bZ\hankler{\text{\$\fertion}} Y\formalfon' Y\formalfon'

±b`X]YgYa `Ni gUa a Yb\Ub[`\Uh`XYf`GYbUh`Ui W\`Ub[Y_ØbX][hž XUgg`GW\i`ghfU» Yb`_ØbZh]['Y]bZUW\Yf`i bX`fYW\hgg]W\Yf Y]b[Yf]W\hYh`k YfXYb`_ÒbbYb"`8 Ug`gc```Xi fW\`Y]bY`HY]`Y]bn]Y\i b[j cb`J Yf_Y\fgZ`ÀW\Yb`[YgW\Y\Ybž'k cVY]`X]Y`5i gk U\``[YY][bYhYf GhfU» Yb`]b`Ni gUa a YbUfVY]h`a]h`GW\i`[Ya Y]bgW\UZhYbž'6Y\ÒfXYb i bX`6Yn]f_gÀa hYfb`YfZc`[Yb`k]fX"`9fghY`a Ò[`]W\Y`GW\i`Yb`ZØf ni _ØbZh][Y`GW\i`ghfU» Yb`k i fXYb`VYfY]hg`[YbUbbhž`XUfi bhYf`X]Y 5Xc`d\!GW\ÒbZY`XYf!GW\i`Y`i bX`X]Y`?Uh\c`]gW\Y`GW\i`Y`Gh" 5bhcb]i g"

Dc`]h]_ i bX 6Øf[YfgWX UZh]a 8]U`c[

8]Y'; fØbYb']b'<Ua Vi f['nY][Yb'g]W\'YfZfYi h'ØVYf'XUg 9b[U[Ya Ybh'XYg'GYbUhg'ZØf'g]W\YfY'GW\i`k Y[Y'i bX'ZcfXYfb'Y]bY nØ[][Y'l a gYhni b["' 9g']gh'YbhgW\Y]XYbXž'XUgg'YXYg'?]bX'g]W\Yf
i bX'i bUV\\Ab[]['ni f'GW\i `Y'[Y`Ub[Yb'_Ubb z'gc'X]Y'JYfhfYhYf"
8]Y'_ca a i bU`Yb'6Y\\OfXYb'a ØggYb'YXcW\'Ui W\'a]h
Ui gfY]W\\YbX'DYfgcbU``Ui g[YghUhhYh'k YfXYbz'i a 'X]Y'D`\AbY'fUgW\\
j cfUbni hfY]VYb"

 $8]Y G]hi Uh]cb VY]Vh Ub [Ygd Ubbh" JYf_Y fgj YfV Åb XYž 9 hYfb Tib X GW Ø Yf Tg]b X Ui Z[Yfi ZYb Ž Y]b Yb T8]U `c[Ta]h XYf `Dc`]h]_ Tni Tgh Ufh Yb i b X Tg]W ZØ f Y]b Y Tni _i b Zhg ZÅ\][Y Tib X Tg]W Yf Y GW i `k Y[g]hi Uh]cb Y]b ni g Yhn Yb " T8 Yb b Y]b Yg Tgh Y TG]W Yf Yf Y]h Tib g Yf Yf Tgh Yf T$

: Øf k Y]hYfZØ\fYbXY \Rightarrow Zcfa Uh]cbYb ni 'XYb' <]bhYf[fØbXYb'i bX 9bhk]\(\frac{N}{2} \) i b[Yb'fi bX'i a 'XUg'H\Ya U'G\(\frac{N}{2} \) i `ghfU\(\text{y} \) Yb']b' < Ua Vi f[ž gY]'Ui Z'X]Y'6Yf]\(\frac{N}{2} \) khYfghUhhi b['j cb'58: 7' < Ua Vi f[ž'X]Y'; fØbYb < Ua Vi f['i bX'X]Y'5bU\mgYb'XYg'8 Yi hg\(\frac{N}{2} \) \(\frac{N}{2} \) b_ 'j Yfk]YgYb''

8 YhU]`g	
Cfh	FY``]b[Yf'GhfU»Yž'&\$&)+' <uavif[ž< th=""></uavif[ž<>
	8 Ying W. `Ub X
EiY``Yb	• \Ua Vi f["UXZWXY
	• k k k "[fi YbY!\Ua Vi f["XY
	kkk"XYihgW\`UbXZib_"XY