

BYi Yf'DU_Yhg\cd']b'BYi ghUXh.'Ga c_]b[@]cb'Yfk Y]hYfh'GYfj]WYUb[YVch

BYi ghUXh`\Uh`Y]bYb`bYi Yb`DU_Yhg\cd.`Ga c_]b[`@]cb`]b`XYf <Ui dhghfU»Y`V]YhYh`DU_YhY`j YfgW\]W_Ybž'UV\c`Yb`i bX`a Y\f"

#D'XYf'BYi ghUXhYf'#DbYbghUXh'[]Vh'Yg'Y]bYb'k Y]hYfYb'; fi bXž'g]WX
ØVYf'`c_U`Y'; YgWXÀZhY'ni 'ZfYi Yb"'8Yf'@UXYb'Ga c_]b['@]cb']b'XYf
< Ui dhghfU» Y'%%('\Uh'g]WX'U`g'bYi Yf'DU_Yhg\cd'YhUV`]Yfhž'k Ug'XYb
6Yk c\bYfb'i bX'6Ygi WXYfb'XYg'J]YfhY`g'ni gÀhn`]WXY
6Yei Ya `]WX_Y]h'V]YhYh''8]YgY'bYi Y'DUfhbYfgWXUZh'a]h'XYf
8Yi hgWXYb'Dcgh'Yfk Y]hYfh'b]WXh'bi f'XUg'5b[YVch'XYg'; YgWXÀZhgž
qcbXYfb'ghÀf_h'Ui WX'X]Y'`c_U`Y'K]fhgWXUZh''

9fk Y]hYfhY 8]Ybgh`Y]ghi b[Yb]a J Yf_Ui ZgfUi a

8 Yf'Ga c_]b['@]cb']gh'VY_Ubbh'ZØf'gY]bY'HUVU_!'i bX
G\]g\UdfcXi _hYž'\Uh'bi b'YXcW\'gY]b'5b[YVch'i a 'k]W\h][Y
DU_YhX]Ybgh`Y]ghi b[Yb'Yfk Y]hYfh"'?i bXYb'\UVYb'X]Y'A Ò[`]W_Y]hž
]\fY'DU_YhY'ni 'j YfgW\]W_Yb'i bX'UVni \c`Ybž'DU_Yh!'i bX'FYhci fYb!
@UVY`g'Ui gni Xfi W_Yb'gck]Y'6f]YZa Uf_Yb'ni '_Ui ZYb"'8]Yg']gh
VYgcbXYfg'k]W\h]['ZØf'X]Y'A YbgW\Yb']b'BYi ghUXhž'XU'Yg'Y]bY
YZZ]n]YbhY'i bX'dfU_h]gW\Y'@Ògi b['ZØf'JYfgUbXVYXØfZb]ggY'V]YhYh'

2 ZZbi b[gnY]hYb ZØf X]Y ?i bXYbZfYi bX`]WX Y]h

8]Y'² ZZbi b[gnY]hYb'XYg'Ga c_]b['@]cb'ki fXYb'YVYbZU``g _i bXYbZfYi bX`]W\'[YghU`hYh"'A cbhU[g'V]g'ZfY]hU[g'_ÒbbYb'?i bXYb j cb'%&'V]g'%, 'I\f'i bX'gUa ghU[g'j cb'%&'V]g'%-'I\f ž'k Ug'Y]bY ZYI]V`Y`Bi hni b[`XYf`bYi Yb`5b[YVchY`Yfa $O[`]Wkh"`8]YgY`NY]hYbg]bX`Y]b`UXYbX`i bX`VYfØW_g]Wkh][Yb`X]Y`6YXØfZb]ggY`XYfGhUXhVYk c\bYfž`X]Y`k À\fYbX`]\fYf`hÀ[`]WkYb`6Ygcf[i b[Yb``Y]WkhUb\U`hYb`_<math>ObbYb$ "

8]Y 6YXYi hi b[ZØf X]Y ; Ya Y]bgW UZh

8]Y '9fÒZZbi b['Y]bYg'bYi Yb'DU_Yhg\cdg']gh'b]W\h'bi f'Y]b'; Yk]bb ZØf'XUg'Y]bnY`bY'; YgW\ÀZhž'gcbXYfb'\Uh'Ui W\kY]hfY]W\YbXY 5i gk]f_i b[Yb'Ui Z'X]Y'BYi ghUXhYf'; Ya Y]bgW\UZh"8Yf'Ni [Ub['ni DU_YhX]YbghYb'j cf'Cfh'_Ubb'VYgcbXYfg'ZØf'A YbgW\Yb'c\bY Y][YbYg'5i hc'cXYf'ZØf'À`hYfY'6Yk c\bYf'Y]bY'Yf\YV`]W\Y 9f`Y]W\hYfi b['XUfghY``Yb"'9g'j Yf_Øfnh'X]Y'K Y[Y'i bX'X]Y'NY]hž'X]Y ZØf'XYb'J YfgUbX'cXYf'X]Y'5V\c`i b['j cb'DU_YhYb'VYbÒh][h'k]fX"

$K Y]hYfY DU_Yhg \ cdg']b'BYighUXh$

 $B\ Yi\ ghUXh'V]YhYh'bcWX'nU\ `fY]WXY'UbXYfY'DU_Yhg\ cdg'XYf'Dcghž'X]YYVYbZU``g'j YfnY]WXbYh'g]bX''' <math>\Rightarrow hYfYgg]YfhY'_ObbYb'g]WX'cb`]bYibhYf'k k k "dcghZ]bXYf"XY'ØVYf'X]Y'j YfgWX]YXYbYb'GhUbXcfhY]bZcfa]YfYb'i bX'Z]bXYb'gc'gWXbY``'XYb'bÀWXghYb'DU_Yhg\cdž'XYf]\fYb'6YXØfZb]ggYb'Ybhgdf]WXh'''8]Yg'nY][hž'k]Y'k]WXh]['Yg']ghž'XYb9]bk c\bYfb'j YfgWX]YXYbY'Cdh]cbYb'ZØf'DU_YhX]YbghY'ni'V]YhYbibX'[`Y]WXnY]h]['X]Y'`c_U`Y'K]fhgWXUZh'ni'i bhYfghØhnYb''$

: Un]h

±g[YgUa highY``hiX]Y`BYi YfÒZZbi b['XYg`DU_Yhg\cdg']a 'Ga c_]b[
@]cb'Y]bYb'dcg]h]j Yb'GW\f]hhiZØf'X]Y'BYi ghUXhYf'; Ya Y]bgW\UZh'XUf''
G]Y'nY][hž'k]Y'J]Y`ZU`hi]b'XYb'; YgW\ÀZhYb'b]W\hibi f'XUg'9]b_Ui ZYb
VYfY]W\Yfhž'gcbXYfb'Ui W\'k]W\h][Y'8]Ybgh'Y]ghi b[Yb'k]Y
DU_Yhj YfgUbX'Yf`Y]W\hYfh''Gc`W\Y'9bhk]W_`i b[Yb'ZÒfXYfb'Y]bY
Yb[YfY'; Ya Y]bgW\UZhii bX'a UW\Yb'XUg'@YVYb'ZØf'j]Y`Y'Y]bZUW\Yf"