

Hfi a d'[Y`UggYb.'K i fXY'GhUVgWXYZ]b Gi g]Y'K]`Yg'[Y\UW_h3

6Yf]WXh'ØVYf'XYb'7mVYfUb[f]ZZ'Ui Z'XUg'< UbXm'j cb'Gi g]Y K]`Ygž'GhUVgWXYZ]b'j cb'8cbU`X'Hfi a dž'i bX'X]Y'FYU_h]cb XYg'DfÀg]XYbhYb"



K Ug\]b[hcbž'8"7"ž'I G5 !! ⊕ 'XYb'`YhnhYb'HU[Yb'g]bX'6Yf]W\hY
ØVYf'Y]bYb'a Ò[`]W\Yb'< UW_'XYg'< UbXmg'j cb'Gi g]Y'K]`Ygž'XYf
GhUVgW\YZ]b'j cb'I G!Df\[Ag]XYbh'8cbU`X'Hfi a dž'Ui Z[Y_ca a Yb"
K \[A\fYbX'X]Y'G]hi Uh]cb'ZØf'UbXYfY'VYgcf[b]gYffY[YbX'gY]b
_\[ObbhYž'[]Vh'g]W\'Hfi a d'[Y`UggYb"' 9g'[]Vh'bi f'Y]bY'Gi g]Y \[ž\]
VYhcbh'XYf'Df\[Ag]XYbh'i bX'\YVh'X]Y': \[A\][_Y]h'j cb'K]`Yg'\Yfj cf\[ž\]
a]h'XYf'G]hi Uh]cb'i a ni [Y\Yb"'9f'VYgW\f]YV'g]Y'U`g' ki bXYfVUfY
: fUi 'i bX'ghY``hY'ZYgh\[Z\YghY``h"</pre>

8]Y '6Yf]W\hYž'X]Y 'j cb'XYb'l G!A YX]Ybž'i bhYf'UbXYfYa 'j ca ' K U``GhfYYh'≈i fbU` ž'Ui Z[Y[f]ZZYb'k i fXYbž'VYgU[Ybž'XUgg 6i bXYgVY\ÒfXYb'VYfY]hg'XYb': U```i bhYfgi W\Yb"'9]b'i bVY_UbbhYf HÀhYfgc``j Yfgi WXYbžg]WX'U`g`K]`Yg'Ui gni [YVYb'i bX'dfca]bYbhY FYdi V`]_UbYfgck]Y': Ø\fi b[g_fÀZhY'Ui g'XYf'K]fhgWXUZh _cbhU_h]Yfh`\UVYb"'8]Y'5fh'XYf'HÀi gWXi b['_ObbhY'Xi fWX'XYb 9]bgUhn'j cb'_Øbgh`]WXYf'+bhY``][Ybn'YffY]WXh'k cfXYb'gY]bž'X]Y'Yg Yfa Ò[`]WXhž'X]Y'Gh]a a Y'j cb'K]`Yg'ni ']a]h]YfYb"'8]Yg'ZØ\fh'ni VYgcf[b]gYffY[YbXYb': fU[Ybž'k]Y'gc`WXY'HYWXbc`c[]Yb']b'XYf 7mVYf_f]a]bU`]hÀhY]b[YgYhnh'k YfXYb"

$7 \text{ mV Yfg} \text{WW YfV Y} \text{h'} \text{a ': c_i g}$

±b 'Y]b Ya 'GW\ f]hhž XYf 'X]Y '9fbgh\ UZh][_Y]h XYf '5b[Y 'Y[Yb\Y]h i bhYfghfY]W\ hž ']b Zcfa]YfhY 'K]'Yg']\ fY 'A]hUfVY]hYf 'ØVYf 'X]Y ?ca dfca]hh]Yfi b[']\ fYf '< Ub Xm_cbhU_hY "'K]W\ h]['ni 'Yfk À\bYb]ghž XUgg 'Yg'g]W\ 'VY] 'XYa '[Y\UW_hYb'; YfÀh'i a ']\ f'df]j UhYg' < Ub Xm \Ub XY`h'i b X'b]W\ h'i a 'Y]b 'X]Ybgh`]W\ Yg" '9]b Y 'GdfYW\ Yf]b 'XYg K Y]» Yb '< Ui gYg'ghY``hY'_`Ufž XUgg'X]Y '7 mVYfg]W\ Yf\Y]h'U``Yf A]hUfVY]hYf'Y]bY '\c\Y'Df]cf]hÀh'\Uh'i bX 'X]Y 'I bhYfgi W\ i b[Yb'ni f ?`Àfi b['XYg'J cfZU``g'Zcfh[YgYhnh'k YfXYb"

BUWXXYa 'gc`WXY'JcfZÀ``Y']a a Yf'\Ài Z][Yf'k YfXYbž']gh'Yg'ZØf
I bhYfbY\a Yb'i bX'Cf[Ub]gUh]cbYb'j cb'YbhgWXY]XYbXYf
6YXYi hi b[ž'YZZY_h]j Y'A U» bU\a Yb'ni f'JYfVYggYfi b[']\fYf
7mVYfg]WXYf\Y]hgghfUhY[]Yb'ni ']a d`Ya Ybh]YfYb''K]Y'Ui g
j YfgWX]YXYbYb'Ghi X]Yb'\Yfj cf[Y\hž'_Ubb'_Øbgh']WXY'+bhY``][Ybn
gck c\``]b'XYf'JYfhY]X][i b['U`g'Ui WX']a '5b[f]ZZ']a '7mVYffUi a
Y]b[YgYhnh'k YfXYbž'k Ug'X]Y'Bchk YbX][_Y]hii bhYfghfY]WXhž'g]WX
_cbh]bi]Yf`]WX'a]h'XYb'bYi YghYb'HYWXbc`c[]Yb'i bX'XYfYb
a d`]_Uh]cbYb'Ui gY]bUbXYfni gYhnYb''Ni gÀhn`]WXY
+bZcfa Uh]cbYb'ni 'XYb'5bk YbXi b[Yb'j cb'_Øbgh`]WXYf
+bhY``][Ybn']b'XYf'7mVYfg]WXYf\Y]h'Z]bXYb'G]Y'\]Yf"

8 YhU]`g	
JcfZU``	7mVYf_f]a]bU`]hÀh
Cfh	KUg\]b[hcbž8"7"žIG5
EiY``Yb	k k k "gUYWX g]gWX Y"XY
	• k k k "bUi "WX
	• k k k "fhf"Uh

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