

; Y\Y]a YgʻHfU]b]b[ˈ]bʻ6UXʻK Òf]g\cZYb. : 7AʻgYhnhʻUi Zʻ8YZYbg]j Y°

: 7 A U[XYVi f['hfU]b]Yfh'i bhYf'HfU]bYf'A Uf_i g':]YX`Yf [Y\Y]a ']b'6UX'K Òf]g\cZYbž'i a 'X]Y'8YZYbg]j Y'ni 'ghÀf_Yb" : Ubg'g]bX'Ua 'GUa ghU['k]``_ca a Yb"



6UX 'K Òf]g\cZYbž'8Yi hgW\`UbX'! → 6UX 'K Òf]g\cZYb
_cbnYbhf]Yfh'g]W\ XYf'%": 7 'A U[XYVi f['XYfnY]h'Ui Z'X]Y

J cfVYfY]hi b['ZØf'X]Y _ca a YbXY'GU]gcb" I bhYf'XYf'FY[]Y'j cb

7\YZhfU]bYf'A Uf_i g:]YX`Yf'Z]bXYh'XUg'HfU]b]b['XYf'9`VYghÀXhYf']a
gh]``Yb'? Àa a Yf'Y]b'ghUhh' [Ubn']a '; Y[YbgUhn'ni 'XYb'`YhnhYb

*J\fYbž'U`g'HfU]bYf'7\f]gh]Ub'H]hn'gY]bY'9]b\Y]hYb'\Ài Z]['Ui W\ 'ZØf
: Ubg'i bX'DfYggY'ÒZZbYhY"'8Yf'; fi bX'ZØf'X]YgY'hU_h]gWXY

9bhgWXY]Xi b['`]Y[h'Ui Z'XYf' < UbX.':]YX`Yf'a ÒW\hY'X]Y'A UbbgW\UZh
]bhYbg]j 'Ui Z'X]Y'_ca a YbXYb' < YfUi gZcfXYfi b[Yb'j cfVYfY]hYbž
]bgVYgcbXYfY']b'XYf'8YZYbg]j Y"

5a 'Xf]hhYb'HU['XYg'HfU]b]b[g`U[Yfg'kifXY'X]Y'2 ZZYbh`]W_Y]h YfbYih'Uig[YgW\`cggYb"'9g'k]fX'U_f]V]gW\'Ub'XYZYbg]jYb ?cbnYdhYb'[YUfVY]hYhžk cVY]'XYf'bYi Y'HfU]bYf'Y]b'VYgcbXYfYg
5i [Yba Yf_'Ui Z'XYb', VYf[Ub['j cb'XYf'ZfØ\YfYb'A UbbXYW_i b[\]b'ni 'Y]bYa ' GWk Ufa j Yf\U`hYb '`Y[h''8]YgYg'gc``'XUVY]'\Y`ZYbž X]Y'J]Y`nU\`'Ub'; Y[YbhcfYb'Ui g'XYf'`YhnhYb'GU]gcb'ni 'fYXi n]YfYb'' 7c!HfU]bYf'GUVUb'I ni b'a Y`XYhYž'XUgg'X]Y'A UbbgW\UZh\'Y]XYbgW\UZh`]W\'j YfhY]X][Yb'`Yfbh'i bX'Ub'XYb'VUg]gZÀ\][Yb'`A\][_Yb'`Yfbh'i bX'Ub'XYb'VUg]gZÀ\][Yb'`XYb'Yb']h''8]YgY'5fh'XYg'HfU]b]b[g']gh'VY]'UbXYfYb
Nk Y]h`][]ghYb'Y\Yf'i bØV`]W\ž'nY][h''YxcW\'X]Y'9bhgW\`cggYb\Y]h
j cb':]YX`Yfž'gY]bY'D\]`cgcd\]Y'gW\bY```ni ']a d`Ya Ybh]YfYb''

8]YAUfgWXf]WXhib[XYgHfU]bYfg

8 Yf') '!À\f][Y'HfU]bYf'\Uh'g]W\']b'XYf'U_hi Y``Yb'GU]gcb'Y]b'_`UfYg N]Y`'[YgYhnh a Ò[`]W\gh'k Yb][Y'Gd]Y`Y'j Yf`]YfYb'':]YX`Yf']gh ØVYfnYi [hž'XUgg'XUg'GUa a Y`b'j cb'Di b_hYb'i bX'XUg'GhÀf_Yb'XYg GY`Vghj YfhfUi Ybg'XYf'A UbbgW\UZh'<UbX']b'<UbX'[Y\Yb'' ?Y]bY Gd]Y`Y'j Yf`]YfYb ']gh'gY]b'A UbhfUž'XUg'Ui W\']b'XYb'_ca a YbXYb DUfh]Yb'ni f'5bk YbXi b['_ca a Yb'gc`'''8]Y'FØW_fi bXY'VY[]bbh'ZØf X]Y'A U[XYVi f[Yf'Ua '%- "'*\Jbi Uf']b'9`j YfgVYf[ž'k c'g]Y'Ub']\fY Ui gk Àfh][Yb'@Y]ghi b[Yb'Ub_bØdZYb'k c``Ybž'VY]'XYbYb'g]Y'ghYhg di b_hYb'_cbbhYbž'k]Y'\DZcfa Uh]cbYb'Ui g'XYa 'fY[]cbU`Yb GdcfhVYf]W\hYfghUhhi b['nY][Yb"

8Ug; $Y \setminus Y$]a hfU]b]b[i bX gY]bY K]f_i b[

8]Y 'U_hi Y``Yb 'HfU]b]b[g]b\U`hY 'Ybh\U`hYb 'Ui W\ 'gdYn]Z]gW\Y
Gd]Y`Zcfa Ybži a 'X]Y \(\frac{1}{2} \text{X}]j \]Xi U`! 'i bX'; fi ddYbhU_h]_']b 'XYb
J cfXYf[fi bX'ni 'f@W_Yb"'Gc`W\Y'Gd]Y`Zcfa Yb'g]bX'Z@f'X]Y
XYZYbg]j Y '5i gV]`Xi b['i bYf`Agg`]W\ 'i bX'[Yk A\f`Y]ghYb'Y]bY
VYggYfY'J cfVYfY]hi b['Ui Z'XYb'Gd]Y`VYhf]YV"'6Y]gd]Y`gk Y]gY'k]fX
]b'a U» [YgW\bY]XYfhYb', Vi b[Yb'`Y]W\hij YfghAbX`]W\'j Yfa]hhY`hž
k]Y'JYfhY]X][Yf'5b[fY]ZYf'Ui Z'XYb'gW\k UW\Yb': i » '`Yb_Yb'cXYf
DUggk Y[Y'gW\`]Y » Yb'_ObbYb"'K Yf'g]W\'Ui Z'X]YgYb'DfcnYgg
Y]b`Agghž'k]fX']b'\Y_h]gW\Yb'Gd]Y`g]hi Uh]cbYb']b'XYf'@U[Y'gY]bž
VYggYfY'9bhgW\Y]Xi b[Yb'ni 'hfYZZYb"

5a 'GUa ghU['Z]bXYh'i a '%%'I \f'k]YXYf'Y]b 'ÒZZYbh`]W\Yg A UbbgW\UZhghfU]b]b['ghUhhž'[YZc`[h'j cb'Y]bYf'? fUZhY]b\Y]hž'k Ug'ZØf X]Y`Ubk YgYbXYb`: Ubg`g]W\Yf`]W\`Y]b`<][\`][\h`XUfghY``Yb`k]fX"

8 Yf`GcbbhU[`]gh`ZØf`]bX]j]Xi Y``Yg`HfU]b]b[`cXYf`Y]bY

k c\`j YfX]YbhY`Fi\YdUi gY`Y]b[Yd`Ubh"\8]Y`K cW\Ybd`Ubi b[`XYg

J YfY]bg`k]fX`VU`X`Ui Z`XYf`K YVgY]hY`VY_Ubbh[Y[YVYbž`XUa]h`Ui W\
X]Y`UbfY]gYbXYb`: Ubg`k]ggYbž`k Ug`g]Y`Yfk UfhYh"

:]YX`Yfg`5bgUhnž`X]Y`XYZYbg]j Y`Ghfi _hi f`ni 'j YfVYggYfb`i bX`X]Y Gh]a a i b[']a 'HYUa 'ni 'ZÒfXYfbž'XØfZhY'b]Wkh'bi f`ZØf`Y]b j YfVYggYfhYg`5i ZhfYhYb'Ui Z'XYa 'D`Uhn'gcf[Ybž'gcbXYfb'Ui Wk'XUg J YfhfUi Yb']b'XUg'HYUa 'ghÀf_Yb"'A Ub'XUfZ'[YgdUbbh'gY]bž'k]Y X]YgY'j cfVYfY]hYbXYb'A U» bU\a Yb']b'XYf'_ca a YbXYb'GU]gcb Zfi WkhYb'k YfXYb"'

8 Y hU]`g	
Cfh	6UX'K Òf]g\cZYbž'8YihgW\`UbX
EiY``Yb	• a U[XYVi f[!Zi ggVU``"XY
	• k k k "a Xf"XY
	Zi ggVU``hfU]b]b[&("XY

6Ygi WXYb G]Y i bg Ui Z b!U["bYh