

J]Whcf]U'?U]gYf'YfZØ``h'g]WX'XYb'HfUi a j ca'@Y\fYfVYfi Z']b'6]VYfUWX

J]Whcf]U'?U]gYfž'Zf]gWX'jYfY]X][h'U`g'@Y\fYf]b']b'l`a ž'ghUfhYh]\fYb'HfUi a 'cV'hfchn'@Y\fYfa Ub[Y`g"'<YfUi gZcfXYfi b[Yb i bX'JcfZfYi XY'dfÀ[Yb']\fYb'K Y["

9]b'bYi Yf'5VgWkb]hh']a '@YVYb'j cb'J]Whcf]U'?U]gYf'i bX'%&*
k Y]hYfYb'@Y\f_fÀZhYb'VY[]bbh']b'X]YgYf'K cWkY']b'I 'a ž'6]VYfUWk
i bX'XYa '5`V!8cbUi !?fY]g"'BUWkXYa 'g]Y'5a hgY]X'[Y'Y]ghYh
\UVYbž'XØfZYb'g]Y'YbX`]Wk'j cf'X]Y'?`UggYb'hfYhYb"'8Yf'cZZ]n]Y``Y
5_h'ZUbX'Ua ': fY]hU[a cf[Yb']a '@UbXfUhgUa h'5`V!8cbUi !?fY]g
ghUhhž'k c'X]Y''I b[Yb'@Y\fYbXYb'ZY]Yf`]Wk'j YfY]X][h'k i fXYb"'Hfchn
XYg'U_hi Y``Yb'@Y\fYfa Ub[Y`g']gh'X]Yg'ZØf'J]Whcf]U'Y]b'k U\f
[Yk cfXYbYf'?]bX\Y]hghfUi a "

8]Y Zf]gWX [YVUW_YbYb @Y\fYf]bbYb i bX @Y\fYf'hfU[Yb]b XYb _ca a YbXYb HU[Yb J YfUbhk cfhi b[ZØf a Y\f U g (\$"\$\$\$ GWX Ø Yf]bbYb i bX GWX Ø Yf]b XYf FY[]cb" <]Yfi bhYf VYZ]bXYb g]WX; fi bX! ž FYU ! i bX ; Ya Y]bgWX UZhggWX i Ybž X]Y bi b ZØf XYb DZ]WX hi bhYff]WX h UV[Yg]WX Yfh g]bX " @Ui h GWX i `Ua hg`Y]hYf 5 WX]a GWX k Ufn V Y]Vh XYf @Y\f_fAZhYa Ub[Y `YXcWX Y]b XfAb[YbXYg DfcV `Ya ž XU j]Y `Y GhY `Yb bUWX k]Y j cf i bVYgYhnh g]bX i bX 9b[dAggY Xfc\Yb"

9]b HfUi a 'k]fX k U\f

 $\label{label} I a `XYb`GWX\varnothing`Yfb`XYb`9]bgh]Y[`ni`Yf`Y]WXhYfbž`\Uh`g]Y`VYfY]hg`]b XYf`K cWXY`j cf`GWXi`VY[]bb`]\f`?`UggYbn]a a Yf`XY_cf]Yfh"`9]b Vi bhYf`; YVi fhghU[g_U`YbXYf`i bX`a ch]j]YfYbXY`?ÀfhWXYb`gc``Yb XYb`?`Y]bYb`Y]b`; YZØ\``j cb`Ni [Y\Òf][_Y]h`[YVYbž`XYbb`J]Whcf]U k Y]» <math>\check{z}$ XUgg`Y]bY`[i hY`6Yn]Y\i b[`ni`XYb`GWX\varnothing`Yfb`XYb @YfbdfcnYgg`YbhgWXY]XYbX`ZÒfXYfh"

8YfKY['nifbYiYb'@Y\fghY``Y

8]Y'JYfY]X][ib['a Uf_]Yfh'XYb'cZ]n]Y``Yb'6Y[]bb'XYf
@Y\fYf_Uff]YfY'ZØf'X]Y'Zf]gW\'[YVUW_YbYb'@Y\f_fÀZhY'''*>\hnh'\Y]>\h
Ygž'JYfUbhk cfhib['ni'@VYfbY\a Yb'ibX'XYb'Y][YbYb'IbhYff]W\h
ni'[YghU`hYb'''8]Y': fYi XY'@VYf'X]Y'bYi Y'5i Z[UVY']gh'gd@fVUf'
j]Y`Y'@Y\fYf'ZfYi Yb'g]W\'b]W\h'bif'Ui Z'X]Y'5fVY]h'a]h'XYb'?]bXYfbž
gcbXYfb'Ui W\'Ui Z'XUg'YfghY'; Y\U`h'ibX'X]Y'VYj cfghY\YbXYb
: Yf]Yb'''8]YgY'9f`Y]W\hYfib[']gh'XYb'a Y]ghYb']bg'; Yg]W\h
[YgW\f]YVYbž'bUW\XYa 'g]Y''U\fY`Ub['ghiX]Yfh'ibX'DfU_h]_U
UVgc`j]Yfh'\UVYb''

8 UgʻGWki `Ua hʻ\Uhʻni gÀhn`]WkYʻA U» bU\a YbʻYf[f]ZZYbži a ʻXYb @Y\f_fÀZhYa Ub[Y`ni ʻVY_Àa dZYbʻi bXʻX]Yʻ\bhY[fUh]cb [YZØWkhYhYfʻ?]bXYfʻni ʻi bhYfghØhnYb"ʻA]hʻØVYfʻ%\$\$

J cfVYfY]hi b[g_`UggYbʻ]bʻXYfʻFY[]cbʻ]ghʻYgʻj cbʻnYbhfU`Yf

6YXYi hi b[ž'X]YgYʻGWk@ʻYf]bbYbʻi bXʻGWk@ʻYfʻVUʻXʻ]bʻXYb

FY[Y`i bhYff]Wkh'ni ʻØVYfZØ\fYb"'8 UgʻN]Y``]ghʻYgžʻYXYa ʻ?]bXʻY]bY

Ub[Ya YggYbYʻGWki `V]`Xi b['ni ʻV]YhYbži bUV\Àb[]['j cbʻgY]bYa

<]bhYf[fi bX"

8]Y'<YfUi gZcfXYfi b[Yb'g]bX'[fc» ži bX'k À\fYbX'XUg'GW\i`Ua h
ZØf'X]Y'FY[]cb'j]Y`Y'hU`Ybh]YfhY'@Y\f_fÀZhY'VYfY]hghY``hž'V`Y]Vh'X]Y
DYfgcbU`XYW_Y']b'XYf'GcbXYfdÀXU[c[]_'VYgcbXYfg'XØbb"'5W\]a
GW\k Ufn'VYhcbhž'XUgg'X]Y'6]`Xi b[g!'i bX'6YfUhi b[gnYbhfYb'b]W\h
Ui gfY]W\YbX'Ui g[YghUhhYh'g]bXži a 'Y]bYb'fY]Vi b[g`cgYb'6Yhf]YV
ni '[UfUbh]YfYb"'8YbbcW\'[]Vh'Yg'@W\hV`]W_Yž'XU'X]Y'G]hi Uh]cb'g]W\
U``a À\`]W\'j YfVYggYfhž'j cf'U``Ya 'Xi fW\'\=b]h]Uh]j Yb'ni f
FY_fi h]Yfi b['j cb'Ei YfY]bghY][Yfb"

8 Y hU]`g

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