

A YggYf!5b[f]ZZ']b'6Yf`]b.'%, $! \Rightarrow \lambda f$ [Yf gh]fVh'bUW\'Y]`][Ya 'GhfY]h

9]b'&'!À\f][Yf'ghY\h'kY[Yb'XYg'AcfXYg'Ub'Y]bYa %,!À\f][Yb']b'6Yf`]b'jcf'; Yf]W\h"'8Yf'DfcnYgg'k]fX'Ua'&," A Àfn'Zcfh[YgYhnh"

6Yf`]b!@]WX hYfZY`XYž'8Yi hgWX`UbX`!'9]b`\YZh][Yf'GhfY]h'YbXYhY
]a '\Jbi Uf'\&\&\a a]h'XYa '\HcX'Y]bYg'\%, !\A\f][Yb']b'6Yf`]b!
@]WX hYfZY`XY"'Bi b'ghY\h'Y]b'\&' !\A\f][Yf'k Y[Yb'A cfXYg'j cf
; Yf]WX h'''8]Y'\HUhi a gh\AbXY'g]bX'XfUa Uh]gWX.'K \A\fYbX'Y]bYf
FUb[Y`Y]'nc['XYf'5b[Y_`U[hY'Y]b'A YggYf'i bX'ghUWX'a Y\fa U`g'ni "
9]b'Gh]WX'hfUZ'XUg'<Yfn'XYg'CdZYfgž'XUg'k Yb]['gd\AhYf']a
?fUb_Yb\Ui g'j YfghUfV"'\Hfchn'XYf'GWXk YfY'XYf'Jcfk ØfZY'gWXk]Y[
XYf'5b[Y_`U[hY'ni 'DfcnYgqVY[]bb'j cf'; Yf]WXh"

8]Y'GhUUhgUbk U`hgW\UZh`\Uh'5b_`U[Y'k Y[Yb'HchgW\`U[g'Yf\cVYb"8Yf'Jcfg]hnYbXY'F]W\hYf'k]Yg'YXcW\'XUfUi Z'\]bž'XUgg'Ui W\'Y]bY JYfi fhY]`i b['k Y[Yb'AcfXYg']b'6YhfUW\h'_ca a Y"'9g'[]Vh'<]bk Y]gY XUfUi Zž'XUgg'XYf'5b[Y_`U[hY'Ui g'b]YXf][Yb'6Yk Y[[fØbXYb\UbXY`hYž'a Ò[`]W\Yfk Y]gY']b'K i h'ØVYf'6Y`Y]X][i b[Ybž'X]Y']a JcfZY`X'XYg'JcfZU``g'Ua 'HY`YZcb'Ui g[YhUi gW\h'k i fXYb"

<]bhYf[fi bX XYg GhfY]hg</pre>

 $8 \ Yf'GhfY]h\check{z}XYf'ni 'X]YgYf'h\grave{O}X`]WXYb'5i gY]bUbXYfgYhni b['ZØ\fhY\check{z} \ VhhY'dYfg\grave{O}b`]WXYb'<]bhYf[fi bX"'Nk Y]'; fi ddYb''i b[Yf'A ÅbbYf hfUZYb'g]WX']b'XYf'BUWXh'ni a '%* "'>Ubi Uf'&$&&ž'i a 'Y]bY _\OfdYf']WXY'5i gY]bUbXYfgYhni b['ni '_`ÀfYbž'X]Y'UbgWXY]bYbX'i a Y]b'A ÂXWXYb'_fY]ghY'''9]b' 9]bnY`_Ua dZ'nk]gWXYb'XYa <math display="block">5b[Y_`U[hYb'i bX'XYa'', !^A\f][Yb'k Uf'j YfUVfYXYhž'XcWX'Y]b 6Y[`Y]hYf'XYg'5b[Y_`U[hYb'[f]ZZ'ni Yfgh'Ub'''8]YgY'9g_U`Uh]cb$

a \emptyset bXYhY`]b`Y]bYb`k \emptyset hYbXYb`GW\`U[UVhUi gW\ž`XYf``Yhnh`]W\`ZUhU`Y : c`[Yb`\UhhY"

9fgha U`][Y'9fa]hh`i b[Yb'ZØ\fhYb'nk Uf'VU`X'ni 'XYa '5b[Y_`U[hYbž XcW\'k i fXY'XUg'J YfZU\fYb']a '\$\dangle `]'&\&&&`k Y[Yb'a Ub[Y`g \]bfY]W\YbXYb'HUhj YfXUW\hg'Y]b[YghY``h'''Yfgh']a 'GYdhYa VYf'&\&'k i fXY'Y]b'k Y]hYfYf'6YhY]`][hYfž'Y]b'XUa U`g'&&! λ \f][Yfž'k Y[Yb?ÒfdYfj Yf`Yhni b['a]h'HcXYgZc`[Y'i bX'XYf'B\\A\Y'ni f'GW\`\\A[YfY]'ni Y]bYf'\dangle [YbXghfUZY'j cb'ZØbZ'\dangle J\fYb'j Yfi fhY]`h''8]YgY'9bhgW\Y]Xi b[]gh'VYfY]hg'fYW\hg_f\\AZh]["

8]YK]YXYfUiZbU\aYXYgJYfZU\fYbg

9f_Ybbhb]ggY`Ui g`XYa `YfghYb`DfcnYgg`ZØ\fhYb`bi b`ni f
K]YXYfUi ZbU\a Y`XYg`J YfZU\fYbg`[Y[Yb`XYb`&' !À\f][Yb"`8Yf
DfcnYgg`k]fX`Ua `&, "`A Àfn`Zcfh[YgYhnhži bX`X]Y`² ZZYbh`]W_Y]h
k UfhYh`[YgdUbbh`Ui Z`X]Y`k Y]hYfYb`9bhk]W_`i b[Yb"

8]Y'HUhYbž'X]Y'\]Yf'ni f'8YVUhhY'ghY\Ybž'g]bX'HY]''Y]bYg'[fÒ»YfYbDfcV'Yag"'@Uih'XYf'8YihgW\Yb'; [YbX]bgh]hih'\UVYb'; YkU'hibX']bgVYgcbXYfY'AYggYfUb[f]ZZY'ibhYf'; [YbX`]W\Ybni [YbcaaYb"'8]Yg'k]fZh'X]Y': fU[Y'bUW\XYb'IfgUW\Yb'ibX'XYba'] aÖ[`]W\Yb'dfÀjYbh]jYb'AU»bU\aYb'UiZ''

8]Y 'HfU[]_'X]YgYg'JcfZU``g'k]fZh'b]W\h'bif': fU[Yb'bUW\FYW\h'ibX I bfYW\h'Ui Zz'gcbXYfb'YfÒZZbYh'Ui W\'Y]bYb'VfY]hYfYb'8]g_i fg'ØVYf \$\int [YbX[Yk U`h']b'8Yi hgW\`UbXz'X]Y']b'XYb'`YhnhYb'\$\J\fYb U`Ufa]YfYbXY'5i ga U\(\text{Y}\)'Ub[Ybca a Yb'\Uh"8]Y'9f[YVb]ggY'XYg DfcnYggYg'kYfXYb'j cfUi gg]W\h`]W\'kY]hfY]W\YbXY'?cbgYeiYbnYb ZØf'X]Y'VYhY]`][hYb''\b[Yb'A\AbbYf'i bX'X]Y'; YgY``gW\UZh'U`g ; UbnYg'\UVYb"

8YhU]`g	
J c f ZU``	AcfX#HchgWX`U[
I fgUWX Y	6Y`Y]X][i b[Yb
Cfh	6Yf`]b!@]WXhYfZY`XYž'8YihgWX`UbX

8 Y hU]`g	
J Y f`Y hnhY	%
: YghbU\a Yb	&
EiY``Yb	k k k "hU[Yggd]Y[Y`"XY
	• k k k "X ^]"XY

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