

CdYfbghYfb'8]UbU'8Ua fUi '_Y\fh'ni fØW_ bUWX'; ØbnVi f[''GY]Yb'G]Y'XUVY]°

8]UbU'8Ua fUi ž'GcdfUb]gh]b'Ui g'; ØbnVi f[ž'gdf]W\h'Ua ', "' \Rightarrow `] ØVYf']\fY'?Uff]YfY']a '8cggYbVYf[Yf!; ma bUg]i a "'H] \underline{W} Yhg'UV) '9i fc"



 $8 \ Ug'@j' Y!; \ YgdfAWX'j \ Yfgdf]WXh'gdUbbYbX'ni''k \ YfXYbž'VYgcbXYfg k Ybb'8 Ua fUi''ØVYf']\ Y''9fZU\ fi b[Yb'i bX'XYb'9]bZi gg'XYf DUbXYa]Y''Ui Z']\ f'FYdYfhc]fY'fYZY_h]Yfh'''G]Y'gY'Vgh'\Uh']b'XYf YhnhYb'NY]h']\ f'5b[YVch'Yfk Y]hYfh'i bX''Y[h'bi b'a Y\ f'K Yfh'Ui Z@]YXYf'i bX'_ca d'Yl Y': fUi Ybfc``Ybž'k Â\ fYbX'g]Y'['Y]WXnY]h][']\ fY K i fnY`b']b'XYf'CdYfYhhY'b]WXh'j Yf[]ggh'''=\ fY'@]YVY'ni f'CdYfYhhY Z]Y*h'Ui WX']b']\ fY'D`AbY'ZØf'Y]b'VYj cfghY\YbXYg'CdYfYhhYbU`Vi a Y]b''$

9]b F ØW_V]W_ Ui Z'X]Y ? Uff]YfY

 $8]Y \cdot GcdfUb]gh]b \cdot \setminus Uh'] \setminus fYb \cdot a \ i \ g]_U \cdot]gWX Yb \cdot K \ YfXY[Ub[\cdot Ub \cdot XYf < cW, gWXi \cdot Y \cdot ZØf \cdot A i g]_']b \cdot K \ ØfnVi f[\cdot VY[cbbYb \cdot i bX \cdot [UV \cdot] \setminus f
 6 Ø \ bYbXYV Øh \cdot Ua \cdot A \ U]b ZfUb_Yb \cdot H \ YUhYf'' = a \cdot @Ui \ ZY \cdot] \setminus fYf \cdot ? Uff]YfY
 k i fXY \cdot g]Y \cdot ni \cdot Y]b Yf \cdot XYf \cdot [YZfU[hYghYb \cdot GAb[Yf]bbYb \cdot] \setminus fYf
 ; YbYfUh]cb'' \cdot 6 Ygcb XYfg \cdot Y]b Xfi \ W_gj \ c \cdots \]ghz \ XUgg \]\ f \ 'gc[Uf \cdot Y]b
 5 ghYfc]X \ 'ni \ '9 \ fYb \]\ fYf \ @Y]ghi \ b[Yb \ 'bUWX \]\ \ f \ VYb Ubbh \ k i \ fXY'' = \ fY
 J]fhi \ cg]h\ hz \ VYgcb XYfg \]b \ '? c \ cfUhi \ ffc \ ``Ybz \ \ Uh']\ f \ XYb \ F i \ Z
 Y]b[YVfUWX \ hz \ Y]bY \ 'XYf \ VYghYb \]b \]\ fYa \ : UWX \ 'ni \ 'gY]b''$

5`g`GW\]fa \Yff]b`XYg`: Ygh]j U`g`@]YX`]b`K ØfnVi f['i bX`U`g fY[Y`a À»][Y`HY]`bY\a Yf]b`Ua :: Ygh]j U``XYf`BUh]cbYb`]b`6UX K Òf]g\cZYb`nY][h'8Ua fUi 'Ui W\]\f`9b[U[Ya Ybh`ZØf`X]Y : ÒfXYfi b['1 b[Yf`HU`YbhY`i bX`X]Y`_`Ugg]gW\Y`A i g]_gnYbY`]b 8 Yi hgW\`UbX"

$9]b D`Uhn']b XYb CdYfb \ a Y`$

± Y]bYa 'F Ub_]b['XYf'Y]bZi ggfY]W ghYb 'C dYfbgÀb[Yf]bbYb fUb[]Yfh'8]UbU'8 Ua fUi 'Ui Z'D`Uhn'%("'G]Y'\Uh'g]W 'b]W h'bi f'U`g ? Òb][]b 'XYf'B UW h'YhUV`]Yfhž'gcbXYfb 'Ui W ']b 'nY]h[Yb Ògg]gW Yb C dYfb'i bX'Ubgdfi W gj c``Yb 'DUfh]Yb 'VYk]YgYb"'5i hcfYb'k]Y'X]Y 5i [gVi f[Yf'5``[Ya Y]bY'i bX'Dcd_i `hi f"XY'VYhcbYb']\f Ui » Yf[Yk Ò\b`]W Yg'HU`Ybh'i bX']\fYb'i bYfa ØX`]W Yb'9]bgUhn'ZØf X]Y'C dYf"

 $Y]bY'Y]ba\ U`][\ Y'7 \setminus UbW \check{z}'Y]bYb`XYf`U_hi\ Y```VYghYb`Gh]a\ a\ Yb`XYf \\ C\ dYfbZUbg``]j\ Y`ni\ 'Yf`YVYb`i\ bX`9]bV`]W_Y`]b`XUg`@YVYb`Y]bYf`XYf \\ [\ fO`>hYb`GcdfUb]gh]bbYb`i\ bgYfYf`NY]h`ni `Yf`Ub[Yb"$

: $\emptyset f'U``Y\check{z}'X]Y'g]W'Z\emptyset f'_`Ugg]gWXY'A i g]_']bhYfYgg]YfYb'cXYf'Y]bZUWXY]bYb'i bhYf\U`hgUa Yb'5VYbX'j YfVf]b[Yb'a ÒWXhYbž']gh'X]YgYg 9j Ybh'Y]b'UVgc`i hYg'A i gg"'6Ygi WXYb'G]Y'X]Y'K YVg]hY'Z<math>\emptyset$ f'k Y]hYfY \oplus Zcfa Uh]cbYb'i bX'g]WXYfb'G]Y'q]WX' \Rightarrow fY'H]\W_Yhq^

<]Yf'g]bX'Y]b][Y'ni gÀhn`]W\Y'=bZcfa Uh]cbYb'ØVYf'8]UbU'8Ua fUi
ni a 'BUW\'YgYb.</pre>

- 5i [gVi f[Yf'5``[Ya Y]bY'VYf]W\hYh'ØVYf'XUg UbghY\YbXY'9j Ybh']b'; ØbnVi f["
- 8]UbU'8Ua fUi g'cZZ]n]Y``Y'K YVgY]hY'V]YhYh
 gdUbbYbXY'9]bV`]W_Y']b']\fY'?Uff]YfY'i bX'5_h]j]hÀhYb"
- Dcd_i `hi f"XY``]ghYh`Y]b][Y`XYf`VYghYb CdYfbgÀb[Yf]bbYbž`XUfi bhYf`Ui W\`8]UbU`8Ua fUi "

8 Y hU]`g	
Cfh	; ØbnVif[ž8YihgWX`UbX
EiY``Yb	• k k k "Ui [gVi f[Yf!U``[Ya Y]bY"XY
	• X]UbU!XUa fUi "Wca
	• dcd_i `hi f"XY

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z 'b U[!V UmY fb "X Y