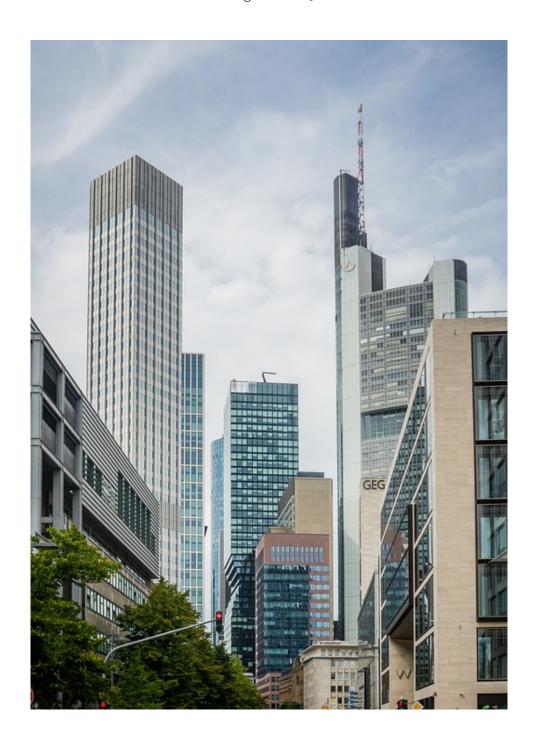


9bhXYW_Y':]bUbnYb.'?i`]bUf]_ž'BUhi f'i bX ?i`hi f'\Ui hbU\'Yf`YVYb°

9bhXYW_Yb^G]Y^X]Y^j YfVcf[YbYb^GW\AhnY^j cb^:]bUbnYb.^j cb _i `]bUf]gW\Yb^<][\`][\hg^ØVYf^UhYa VYfUi VYbXY^BUhi f^V]g^ni _i `hi fY``Yb^9bhXYW_i b[Yb^i bX^i bj Yf[Ygg`]W\Yb _JYfUbghU`hi b[Yb^



9]b ZUbhUgh]gWX Yg F Y]gYn]Y`.:]bUbnYb

K]``_ca a Yb']b':]bUbnYbžY]bYa 'j YfghYW_hYb' \Rightarrow k Y`ž'XUg'XUfUi Z k UfhYhž'YbhXYW_h'ni 'k YfXYb°'9[U`ž'cV'Xi 'Y]b''UVYbhYi Yf`i gh][Yf FY]gYbXYfž'Y]b': Y]bgW\a YW_Yf'cXYf'Y]b'?i `hi f`]YV\UVYf'V]ghž:]bUbnYb'\Uh'ZØf''YXYb'Yhk Ug'ni 'V]YhYb''' \Rightarrow b'X]YgYa '5fh]_Y` bY\a Yb'k]f'X]W\a]h'Ui Z'Y]bY'gdUbbYbXY'FY]gY'Xi fW\'X]YgY ZUgn]b]YfYbXY'FY[]cb'''<]Yf'YfZ\hYfZh\fgh'Xi 'j cb'XYb'j YfghYW_hYb GW\hhYb'z'X]Y'cZh'bi f'XYb'9]b\Y]a]gW\Yb'VY_Ubbh'g]bXž'i bX YbhXYW_gh'X]Y'_i `]bUf]gW\Yb'<][\\`][\hg\z'X]Y'XY]bYb'; Ui a Yb j Yfk O\bYb'k YfXYb''

: Øf X]Y B Uhi f`]YV\UVYf`i bhYf`Yi WX 'V]YhYh`:]bUbnYb`Y]bY
UhYa VYfUi VYbXY`B Uhi f`i bX`nU\`fY]WXY`C i hXccf!5_h]j]hÀhYbž
X]Y`X]WX`]b`GhUi bYb`j YfgYhnYb`k YfXYb"`Jcb`a U`Yf]gWXYb
K UbXYfk Y[Yb`V]g`\]b`ni `Ui ZfY[YbXYb`K UggYfgdcfha Ò[`]WX_Y]hYb
`\]Yf`_ca a h`YXYf`]b`XYb`; Ybi gg`XYf`B Uhi f"`I bX`XUg`]gh`bcWX
b]WXh`U``Yg°`HUi WXY`Y]b`]b`X]Y`_i `hi fY``Yb`9bhXYW_i b[Yb`i bX`
\]ghcf]gWXYb`GhÀhhYbž`X]Y`X]Y`; YgWX]WXhY`X]YgYf`FY[]cb
`YVYbX][`k YfXYb``UggYb"

I a 'XY]bYb'5i ZYbh\U`h'i bj Yf[Ygg`]W\'ni 'a UW\Ybž'hY]`Yb'k]f'Ui W\
gdUbbYbXY'J YfUbghU`hi b[Yb'i bX': YghYž'X]Y'Xi 'Ui Z'_Y]bYb': U``
j YfdUggYb'gc``hYgh"'I bX'_Y]bY'Gcf[Yž'k]f'V]YhYb'X]f'bØhn`]W\Y'
H]ddg'ZØf'X]Y'VYghY'FY]gYnY]h'gck]Y'9a dZY\`i b[Yb'ZØf'
I bhYf_ØbZhYž'XUa]h'Xi 'ghYhg'[i h'i bhYf[YVfUW\h'V]gh"

A UWX 'X]WX 'VYfY]h'ZØf'Y]b'5VYbhYi Yf']b':]bUbnYb' 'Y]b'C fhž'XYf gck c\`'ZØf'Fi\Y'U`g'Ui WX 'ZØf'UWh]cbfY]WXY'9f`YVb]ggY'VY_Ubbh']gh" @Ugg'i bg'[Ya Y]bgUa 'Ui Z'X]YgY'FY]gY'[Y\Yb°

8]Y'j YfghYW_hYb'GWAhnY'jcb':]bUbnYb

:]bUbnYbžY]bY a U`Yf]gW\Y`FY[]cb`]a `< YfnYb`9i fcdUgž`\Uh`k Y]h
a Y\f`ni `V]YhYb`U`g`bi f`hmd]gW\Yb`Hci f]ga i g"`<]Yf`[]Vh`Yg`gc`j]Y`Y
j YfghYW_hY`GW\ÀhnYžX]Y`XUfUi Z`k UfhYbžYbhXYW_h`ni `k YfXYb"

5VgY]hg`XYf`Ui g[YhfYhYbYb`DZUXY`[]Vh`Yg`W\Ufa UbhY`8 ÒfZYfž UhYa VYfUi VYbXY`@UbXgW\UZhYb`i bX`[Y\Y]a b]gj c``Y`CfhYž`X]Y`XYb 6Yqi W\Yf`]b`]\fYb`6Ubb`n]Y\Yb`k YfXYb"

 $9]bYf'XYf'ZUgn]b]YfYbXghYb'5gdY_hY'jcb':]bUbnYb']gh'X]Y'?i`hif'' \\ 8]Y'FY[]cb'VY\YfVYf[h'nU\`fY]WXY'_`Y]bY'GhÀXhY'ibX'8 ÒfZYfž']b \\ XYbYb'X]Y'HfUX]h]cbYb'`YVYbX]['[Y\U`hYb'kYfXYb'''+b'CfhYb'k]Y \\ Gh''DYhYf'ibX'Gh''DUi``Z]bXYb'G]Y'kibXYfgWX ÒbYž'[ih'Yf\U`hYbY5`hghUXhYbž'X]Y'jcb'a]hhY`U`hYf`]WXYf'5fWX]hY_hif'[YdfÀ[h'g]bX'' <]Yf'_\ObbYb'G]Y']b'_\Yf\bYb'7UZ\Ag'g]hnYbž'k\A\fYbX'X]Y'NY]h'gWXYgWXY]bh'gh]``nighY\Yb'ibX'X]Y'9]b\Y]a]gWXYb'\=\bYb']\fY; YgWX]WXhYb'Yfn\A\`Yb''$

9]b'k Y]hYfYg'j YfghYW_hYg'¾k Y``]gh'XYf'B Uh]cbU`dUf_::]bUbnYb"
A]h'gY]bYb'i bVYfØ\fhYb'K À`XYfbž'_f]ghU``_`UfYb'GYYb'i bX
VYY]bXfi W_YbXYb'6Yf[Yb'[Y\Òfh'Yf'ni 'XYb'VYghYb'CfhYb'ZØf
BUhi f`]YV\UVYf", VYf'%\$\$'K UbXYfk Y[Y'ZØ\fYb'Xi fW\'X]Y
UhYa VYfUi VYbXY'@UbXgW\UZhž'k c'G]Y'k U\fgW\Y]b`]W\'gc[Uf'XUg
Y]b'cXYf'UbXYfY'k]`XY'H]Yf'gY\Yb'_ÒbbYb"'8]Y'VYghYb
K UbXYfk Y[Y'g]bX'[i h'Ui g[YgW\]`XYfhž'gcXUgg'G]Y'g]W\'`Y]W\h

9]b'VYgcbXYfYg'<][\`][\h'g]bX'X]Y'\]ghcf]gWXYb

A]bYfU`ei Y``Ybž'X]Y']b'XYf'FY[]cb'j YfhY]`h'g]bX"'8]YgY'Ei Y``Yb
g]bX'b]WXh'bi f'ZØf']\fY'\Y]`gUa Yb'9][YbgWXUZhYb'VY_Ubbhž
gcbXYfb'Ui WX'ZØf']\fY'[Ubn'Y][YbYb'; YgWX]WXhYb'i bX'@Y[YbXYb"
6Ygi WXYb'G]Y'X]Y'Ei Y``Yb']b'6UX':]bUbnYbž'k c'G]Y']b'XYb'; Ybi gg
j cb'h\YfUdYi h]gWXYb'6ÀXYfb'_ca a Yb'_ObbYb"'9g']gh'Y]bY
]XYU`Y'A O[`]WX_Y]hž'g]WX'bUWX'Y]bYa 'HU['j c``Yf'9f_i bXi b[Yb'ni
YbhqdUbbYb"

FYghUi fUbhgʻi bXʻ; Ugh\Ai gYfbʻ_ObbYbʻG]Yʻg]W\ʻj cbʻXYf ; UghZfYi bXgW\UZhʻXYfʻ9]b\Y]a]gW\Ybʻj YfnUi VYfbʻ`UggYb"

@YW_YfY]Yb`Uig':]bUbnYb	6YgWkfY]Vib[
:]bUbnYbYf'?ÀgY	9]b'WfYa][Yf'ibX'UfcaUh]gWXYf
	?ÀgYž'XYf'dYfZY_h'ZØf'^YXY
	A U\`nY]h [·]]gh"
6Ui Yfb[Yf]W\hY	Figh]_U`Y`; Yf]W\hYžcZh`a]h
	gU]gcbU`Yb`Ni hUhYb`ni VYfY]hYh"
<ui g[ya="" td="" ufa="" uwxhy`a="" y`uxyb<=""><td>Jcb'Y]b\Y]a]gW\Yb'CVghgcfhYbž</td></ui>	Jcb'Y]b\Y]a]gW\Yb'CVghgcfhYbž
	dYfZY_h'ZØf'XUg':fØ\ghØW_"

8]Y'FY[]cb'VY\Y]a UhYh'Ui WX'Y]b][Y'_Øbgh`Yf]gWXY; Ya Y]bgWX UZhYbž'X]Y'<UbXk Yf_g_i bghi bX'_fYUh]j Y'Dfc'Y_hYdZY[Yb"'+b'_`Y]bYb'; U`Yf]Yb'i bX'5hY`]Yfg'_ÒbbYb'G]Y'?i bghk Yf_YYbhXYW_Ybž'X]Y'j cb'XYf'GWXÒb\Y]h'XYf'I a [YVi b[']bgd]f]Yfh'g]bX"9g``c\bh'g]WX'Ui Z'YXYb': U``ž'XYb'Y]b'cXYf'UbXYfYb?i bgh\UbXk Yf_Yf'ni 'VYgi WXYbž'i a 'Ui h\Ybh]gWXY'8]b[Y'ni YfghY\Yb'i bX'a Y\f'ØVYf'X]Y'?i `hi f'i bX'X]Y'A YbgWXYb'j cb:]bUbnYb'ni 'YfZU\fYb"

9]b'k Y]hYfYg'j YfVcf[YbYg'<][\`][\h'g]bX'X]Y'gh]a a i b[gj c``Yb'

J YfUbghU`hi b[Yb'i bX'A Àf_hYž'X]Y'fY[Y`a À»][']b'XYb

; Ya Y]bXYb'ghUhhZ]bXYb"'8]YgY': YghY'g]bX'dYfZY_hY

; Y`Y[Yb\Y]hYbž'i a 'a]h'9]b\Y]a]gW\Yb']b'?cbhU_h'ni 'hfYhYb'i bX

X]Y'?i `hi f'\Ui hbU\'ni 'Yf`YVYb"'CV'K Y]\bUW\hga Àf_hYž'`c_U`Y

<UbXk Yf_ga YggYb'cXYf'9fbhYZYghY' 'Yg'[]Vh'ZØf''YXYb'Yhk Ug'ni
YbhXYW Yb°

8]Y @UbX]Xm`Y'j cb::]bUbnYb']gh'XYf'dYfZY_hY'Cfhži a 'g]W\'ni YbhgdUbbYb'i bX'X]Y'GYY`Y'VUi a Y`b'ni '`UggYb'''J Yf[YggYb'G]Y b]W\h'=\fY'?Ua YfUž'XYbb''YXYf'6`]W_'i bX''YXY'GhfU\(\) Y'k]fX'=\bYb i bj Yf[Ygg`]W\Y'9f]bbYfi b[Yb'VYgW\YfYb'''K Ybb'G]Y'X]Y'K i fnY`b XYf'FY[]cb'k U\f\UZh]['Yf_i bXYb'a OW\hYbž']gh'Yg'fUhgUa ž'X]Y hci f]gh]gW\Yb'5b[YVchY'\]bhYf'g]W\'ni '`UggYb'i bX'g]W\'Ui Z'X]Y 9bhXYW_i b['XYf'j YfghYW_hYb'GW\AhnY'j cb':]bUbnYb'ni cbnYbhf]YfYb''

$?i `]bUf]gWXY' <][\ `][\ hg'i bX``c_U`Y GdYn]U`]hÀhYb$

6Y[]bbYb'k]f'a]h'Y]bYf'XYf'VY_UbbhYghYb'GdYn]U`]hÀhYb'XYf
FY[]cb.'XYa'F\Y]b]gWXYb'GUiYfVfUhYb"'8]YgYg'g'WXaUW_\UZhY
F]bXZY]gWX[Yf]WXh'k]fX']b'Y]bYf'AUf]bUXY'Uig'9gg][ž'KUggYfž
Nk]YVY`b'ibX';YkØfnYb'Y]b[Y`Y[h'ibX'XUbb'`Ub[gUa
[YgWXacfh"'GYfj]Yfh'a]h'?UfhcZZY`_`O`>Yb'ibX'5dZY`aig'k]fX'Yg'cZh
U`g'<O\Ydib_h'Y]bYg'ZYgh`]WXYb'9ggYbg'Ub[YgY\Yb"

B]Wk hg gWk `A[h Y]b '[i h Yg': `Uaa_i Wk Yb ž XYf 'gY]b Yb 'I fgdfi b[']b XYb 'Ub[fYb n Yb XYb 'F Y[]c b Yb '\ Uhž 'UV Yf 'Ui Wk '\]Yf `]Y V Yj c ``ni V Yf Y]h Yh k]f X "8 Yf 'X Øb b Y 'H Y][']gh a]h Y]b Yf 'A]g Wk i b['Ui g 7 f Äa Y 'Zf U B Wk Yž 'N k]Y V Y`b 'i b X 'G d Y W_ 'V Y`Y[h i b X '_caa h '_bi g d f][Ui g 'X Ya 'C Z Y b " @c_U`Y '6 À W_Yf Y]Y b '\ UV Yb 'c Zh ']\ f Y 'Y][Yb Y J Uf]Ub h Y ž 'X]Y '_`Ugg]g Wk Yb 'F Ygd Y_h 'n c ``h i b X 'X Yb b c Wk 'Y][Yb Y_f Y Uh]j Y '5_n Yb h Y 'g Yhn h "

9]b'k Y]hYfYg'A i gg']gh'X]Y': cfY``Y'V`Ui žX]Y']b'XYf'_`UfYb'K UggYf XYg'F\Y]bg'[YZUb[Yb'k]fX"8]YgYg'; Yf]Wkh'k]fX'Xi fWk'XUg'?cWkYb XYf': cfY``Y']b'Y]bYf'A]gWki b['Ui g'9gg]['i bX'K UggYf'ni VYfY]hYh i bX'a]h'Y]bYf'gUbZhYb'<UbX'gYfj]Yfh''8Uni 'dUggYb'DY``_UfhcZZY`b i bX'Y]bY'6i hhYfgUi WYž'i a 'XYb'bUhØf`]WkYb'; YgWka UW_'XYg :]gWkYg'ni 'VYhcbYb''

 $8]Y `F \ Y]b]gWX Yb `K Y]bY \check{z}]bgVYgcbXYfY `X]Y `K Y] ** k Y]bY \check{z} g]bX YVYbZU``g `Y]b` <][\ ``][\ h`XYf `F Y[]cb" `8]Y `K Y]bVYf[Y `Ybh`Ub[`XYg F \ Y]bg`dfcXi n]YfYb `Y]bY `J]Y`nU\ ``j cb `F YVgcfhYb \check{z} `XUfi bhYf F]Yg`]b[`i bX `A Ø``Yf!H\ i f[Ui " `8]YgY `K Y]bY `g]bX `b]WX h`bi f$

Ufca Uh]gW\zigcbXYfb`Yf[ÀbnYb`Ui W\`X]Y`_i`]bUf]gW\Yb?Ògh`]W_Y]hYb`dYfZY_h"`6Ygi W\Yb`G]Y`X]Y``c_U`Yb`K Y]b[ØhYf`ZØfY]bY`JYf_cghi b['i bX'i a 'a Y\f`ØVYf`XYb K Y]bdfcXi_h]cbqdfcnYqq`ni 'YfZU\fYb"

8]Y: Ubgʻj cbʻGØ» gdY]gYbʻ_ca a YbʻYVYbZU``gʻUi Zʻ]\fYʻ?cghYb"
9]bYʻXYfʻVY`]YVhYghYbʻ8Y`]_UhYggYbʻ]ghʻXYfʻF\Y]b]gWXY
@YV_i WXYb"`C Zhʻ]bʻ\UbX[YZYfh][hYbʻ: cfa Ybʻni VYfY]hYhžʻ]ghʻX]YgYf
k Øfn][Yʻ?Y_gʻb]WXhʻbi fʻni 'K Y]\bUWXhYbʻY]bʻ; Ybi gg"ʻJ]Y`Yʻ7UZÅg
V]YhYbʻ\Ui g[Ya UWXhYʻJ Uf]UbhYbʻUbžʻX]YʻX]YʻfY[]cbU`Ybʻ; Yk ØfnY
i bXʻNi hUhYbʻni fʻ; Y`hi b[`Vf]b[Yb"

9]b'6Ygi W\']b':]bUbnYb'k ÀfY'b]W\h'j c``ghÀbX]['c\bY'XUg
5i gdfcV]YfYb'XYf'hfUX]h]cbY``Yb'<]a a Y``i bX'9fXYžY]b
Y]bZUW\Ygž'UVYf'gY\f'`YW_YfYg'; Yf]W\hž'XUg'ŸdZY``i bX'? UfhcZZY`b
_ca V]b]Yfh"'Bcfa U`Yfk Y]gY'k]fX'Yg'a]h'6`i hk i fgh'gYfj]Yfh'i bX']gh
Y]b'k i bXYfVUfYg'6Y]gd]Y``ZØf'X]Y'\Yfn\UZhYž'`UbXk]fhgW\UZh`]W\
[Ydf\[A\] hY'? ØW\Y'XYf'FY[]cb"

; Yf]WXh 6YgWXfY]Vib[

F\Y]b]gWXYf~GUiYfVfUhYb	A Uf]b]YfhYgʻi bXʻ[YgW\a cfhYg
	F]bXZY]gWXž'gYfj]Yfh'a]h
	? `Ò» Y b "
: `Ua a _i W.Yb	8ØbbYf'HY][a]h'7fÄa Y'ZfUÊWXYž
	Nk]YVY`b'i bX'GdYW_"
: cfY``Y`V`Ui	±5.9gg][k UggYf.[Y_cWkhY
	: cfY``Y`a]h'DY``_UfhcZZY`b"
F\Y]b]gW\Y`K\Y]bY	5fhYb'k]Y'F]Yg`]b['ibX'AØ``Yf!
	H\i f[Ui ž']XYU``ni ``c_U`Yb
	GdY]gYb"
F\Y]b]gW\Yf^@YV_i W\Yb	; Yk ØfnhYf"?Y_gž"cZh"]b
	hfUX]h]cbY``Yb': cfa Yb
	j cf_ca a YbX"
<]a a Y``i bX'9fXY	9]b'; Yf]W\h'Ui g'ŸdZY`b'i bX
	?UfhcZZY`bž'\ÀiZ][ˈa]h
	6`i hk i fgh"

 $: \varnothing f`X]Y`_i`]bUf]gWX` = bhYfYgg]YfhYbž`X]Y`a Y\f`]b`X]Y``c_U`Y$

; Ughfcbca]Y 'Y]bhUi WX Yb 'a OWX hYbž'V]YhYb'j]Y `Y 'F YghUi fUbhg'i bX; Ugh\Ai gYf']b':]bUbnYb'?cWX_i fgY'Ub"'8]YgY'J YfUbghU`hi b[Ybg]bX'Y]bY'[fc»Ufh][Y'; Y`Y[Yb\Y]hž'X]Y'; Y\Y]a b]ggY'\]bhYf'XYbhfUX]h]cbY``Yb'F YnYdhYb'ni '`YfbYb'i bX'[`Y]WXnY]h]['a]h
9]b\Y]a]gWXYb']bg'; YgdfAWX'ni '_ca a Yb"'GhY``Yb'G]Y'g]WXYfž'XUggG]Y'D`Uhn'ZØf'U``Yg'\UVYb' 'j ca '\Yfn\UZhYb'<Ui dh[Yf]WXh'V]g'ni agØ» Yb'8 YggYfh°

5VgWX`]Y» YbX``Àggh'g]WX`gU[Ybž'XUgg`:]bUbnYb`b]WXh'bi f'Y]b`N]Y`ZØf`BUhi f`]YV\UVYf`]ghž'gcbXYfb`Ui WX`ZØf`:Y]bgWXa YW_Yf"'8]Y?ca V]bUh]cb`Ui g`fY[]cbU`Yb`Ni hUhYb`i bX`hfUX]h]cbgfY]WXYbFYnYdhYb`a UWXh'X]Y`_i`]bUf]gWXYb`9f`YVb]ggY`]b`X]YgYfWXUfa UbhYb`GhUXh'ni 'Yhk Ug`6YgcbXYfYa "'6Ygi WXYb`G]Y`X]Y`c_U`Yb`A Àf_hYž'dfcV]YfYb`G]Y`X]Y`j cf[YghY``hYb; Yf]WXhY`i bX`UggYb`G]Y`g]WX`j cb`XYf`J]Y`ZU`h`XYf`5fca Yb`ØVYffUgWXYb°

5 hYa VYfUi VYbXY B Uhi f i bX C i hXccf! 5_h]j]hÀhYb

:]bUbnYbžY]b'_`Y]bYg'¾k Y``]b'XYf'GWk Y]nž'VY[Y]ghYfh'b]Wk h'bi f a]h'gY]bYf'ZUgn]b]YfYbXYb'?i `hi fž'gcbXYfb'Ui Wk'a]h'Y]bYf VYY]bXfi W_YbXYb'BUhi f`UbXgWkUZhž'X]Y'Ci hXccf!9bh\i g]UghYb'i bXBUhi f`]YV\UVYf'[`Y]WkYfa U»Yb'Ubn]Y\h"'Jcb'XYb'a U'YghÀh]gWkYb5`dYb'V]g'ni 'XYb'fi\][Yb'I ZYfb'XYf': `ØggY'V]YhYh':]bUbnYb'Y]bYJ]Y`nU\`'Ub'A Ò[`]Wk_Y]hYbž'X]Y'GWkÒb\Y]h'XYf'BUhi f'\Ui hbU\'ni YfYVYb"

8]Y'FY[]cb']gh'j cb'i bVYfØ\fhYb'K À`XYfbž'[`Ug_`UfYb'GYYb'i bXUhYa VYfUi VYbXYb'6Yf[_i`]ggYb'[YdfÀ[h''CV'Xi'[YfbY'k UbXYfghžfUXZU\fgh'cXYf'Y]bZUW\'bi f'X]Y'5i gg]W\h'[Yb]Y»Yb'a ÒW\hYghž'\]Yfg]bX'Y]b][Y'XYf'VYghYb'5_h]j]hÀhYb'i bX'CfhYž'X]Y'Xi 'b]W\h j YfdUggYb'gc``hYgh

K UbXYfb']b'XYb'5`dYb.'8]Y'i a `]Y[YbXYb'5`dYb'V]YhYb
Y]b'k Y]h'Ài Z][Yg'BYhn'Ub'K UbXYfk Y[Yb"'6Y`]YVhY'Fci hYb
g]bX'X]Y'GÀbh]g! < ØhhY'i bX'XYf'; Ufa]`ž'k c'X]Y'5i gg]W\h
UhYa VYfUi VYbX']gh"' ⊕ 'XYf'FY[]cb': `i a gYfVYf['_Ubbgh
Xi 'gck c\```Y]W\h'VY[Y\VUfY'U`g'Ui W\'Ubgdfi W\gj c``YfY

HfU]`g'Z]bXYb"

- FUXZU\fYb 'Ybh`Ub['XYg'NØf]WX gYYg. '8Yf'FUXk Y['i a XYb'GYY']gh'ZØf'5bZÀb[Yf'i bX': cfh[YgWXf]hhYbY [`Y]WXYfa U» Yb'[YY][bYh"'8]Y'?ca V]bUh]cb'Ui g UhYa VYfUi VYbXYb'@UbXgWXUZhYb'i bX'XYf'Zf]gWXYb'@i Zh a UWXh'X]YgY'Hci f'i bj Yf[Ygg`]WX"
- ? Ubi 'ZU\fYb'Ui Z'XYa 'NØf]WX gYY. '9f`YVY'XYb'GYY'j ca K UggYf'Ui g"'? Ubi !'i bX'? U'U_j Yf`Y]\Y'V]YhYb'X]Y A Ò[`]WX_Y]hž'X]Y'fi \][Yb'; Yk ÀggYf']b'XY]bYa 'Y][YbYb HYa dc'ni 'Yf_i bXYb"

< Ài Z][Y < YfUi gZcfXYfi b[Yb i bX H]ddg

Hfchn'XYf'GW\Òb\Y]h'XYf'BUhi f'[]Vh'Yg'Y]b][Y'<YfUi gZcfXYfi b[YbžUi Z'X]Y'a Ub'UW\hYb'gc``hYž']bgVYgcbXYfY'VY]a 'K UbXYfb'i bX FUXZU\fYb']b'XYb'5`dYb.

- K YhhYfVYX]b[i b[Yb. *\dagger* XYb *\6Yf[Yb *_Ubb *\XUg *\K YhhYf g\W bY \cdots i a g\W \cdot \U[Yb \cdot '\9g *]gh *\k]\W h][\dot z*\g]\W *\j cf\Yf *\ni]b\Zcfa]YfYb *\i b\X *\g]\W *\duggYb\X *\Ubni n]Y\Yb "
- GWX k]Yf][_Y]hg[fUXY'XYf'HfU]`g. 'J]Y`Y'K UbXYfk Y[Y g]bX'[Y_YbbnY]WXbYhž'UWXhYb'G]Y'Ui Z'X]Y'K Y[k Y]gYfž'i a g]WXYfni ghY``Ybž'XUgg'Xi 'X]Y'dUggYbXY'Fci hY'k À\`gh"
- 5i gfY]WX Yb X 'K UggYf'i b X 'GbUW_g'a]hb Y\a Yb.
 bgVYgcbXYfY'VY]'`Àb[YfYb'Hci fYb']gh'Yg'k]WXh][ž'[i h j cfVYfY]hYh'ni 'gY]b"

6YgcbXYfY BUhi fgWXi hn[YV]YhY

:]bUbnYb'VY\YfVYf[h'Ui » YfXYa 'a Y\fYfY'[YgWk ØhnhY B Uhi ffÀi a Yž'X]Y'Yg'k Yfh'g]bXž'VYgi Wh'ni 'k YfXYb"'8]YgY'; YV]YhY V]YhYb'b]W\h'bi f'Y]bY'VYY]bXfi W_YbXY': `cfU'i bX': Ui bUž'gcbXYfb q]bX'Ui W\'dYfZY_hY'CfhY'ZØf'Jc[Y`VYcVUW\hi b[Yb'i bX': chc[fUZ]Y.

- K]`XfYgYfj Uh'5fcgg.'9]b'fi \][Yf'Cfhž'VY_Ubbh'ZØf'gY]bY
 J]Y`nU\`'Ub'Jc[Y`UfhYb'i bX'K]`Xh]YfYbž']XYU`'ni a
 K UbXYfb'i bX'9bhgdUbbYb"
- $GWV i hn[YV]Yh Ua NØf]WV gYY <]Yf _Ubbgh Xi X]Y$

VYY]bXfi W_YbXY'5_fcVUh]_'XYf'\Y]a]gWXYb'K UggYfj Ò[Y`VYk i bXYfb"

$5_h]_i hAhYb ZØf 5VYbhYi Yfi gh][Y$

 $: \emptyset f^*X]Y^*b][Yb\check{z}^*X]Y^*bUWX^*a Y \setminus f^*5XfYbU^*]b^*gi W_Yb\check{z}^*V]YhYh^*:]bUbnYbUi W_Y]bY^*FY] \setminus Y^*j cb^*Ui ZfY[YbXYb^*5_h]j]hAhYb.$

- ? `YhhYfb. `A]h'j YfgW\]YXYbYb'? `YhhYffci hYb']b'XYb'5`dYb]gh'Yg'XYf']XYU`Y'Cfh'ZØf'? `YhhYfYf'U``Yf GW\k]Yf][Y]hq[fUXY"
- DUfU[`]X]b[.'9f`YVY'X]Y'VYY]bXfi W_YbXY'@UbXgW\UZh'Ui g
 XYf'@ Zh"'J]Y`Y'Òfh`]W\Y'5bV]YhYf'V]YhYb'[YZØ\fhY
 DUfU[`]X]b[!Hci fYb'Ub"
- G_]ZU\fYb ii b X Gbck VcUfXYb. =a 'K]bhYfin]Y\hiX]Y FY[]cb K]bhYfgdcfh`Yf'Ub"'8]Y'D]ghYb j cb : `i a gYfVYf[[Y`hYb'U`g'X]Y'VYghYb'XYf'FY[]cb"

5[YbXUZØfCihXccf!5VYbhYiYf

 $K Ybb `Xi `Y]bYb `6Ygi W `d`Ubghž` \]Yf `Y]bY `bØhn`]W Y `HUVY``Yž'i a `X]f Y]bYb `, VYfV`]W_ 'ØVYf `VY`]YVhY `C i hXccf! 5_h]j]hÀhYb `ni `[YVYb.$

5_h]j]hÀh	Cfh	6YghY'\J\fYgnY]h
K UbXYfb	GÀbh]g	A U]'V]g'C_hcVYf
F UXZU\fYb	NØf]WX gYY	5df]``V]g`C_hcVYf
?Ubi ZU\fYb	NØf]WX gYY	AU]'V]g'GYdhYa VYf
$G_]ZU\ fYb$: `i a gYfVYf[8YnYa VYf'V]g'5df]`

:]bUbnYb'V]YhYh'Y]bY': Ø``Y'j cb'A Ò[`]WX_Y]hYb'ZØf'BUhi f`]YV\UVYf i bX'Ci hXccf!5_h]j]ghYb"'9[U`ž'cV'Xi 'Ui Z'XYf'Gi WXY'bUWX'Y]bYa YbhgdUbbhYb'HU['Ua 'K UggYf'cXYf'bUWX'Y]bYa 'UVYbhYi Yf`]WXYb <]_Y']b'XYb'6Yf[Yb'V]ghž'X]Y'FY[]cb'\Uh'ZØf'YXYb'Yhk Ug'ni V]YhYb"'8]Y'UhYa VYfUi VYbXY'?i`]ggY'i bX'X]Y'Zf]gWXY'6Yf[`i Zh qcf[Yb'XUZØfž'XUqq'YXYf'A ca Ybh'i bj Yf[Yqq`]WX'V`Y]Vh"

?i`hifY``Y'9bhXY W_i b[Yb'ibX'\]ghcf]gW\Y

GhÀ hhY b

 $:]bUbnYb\check{z}'U\grave{g}'Y]bY'XYf'_i `hi fY```fY]WX ghYb'FY[]cbYb\check{z}'V]YhYh'Y]bY\\ J]Y\grave{n}U\&``Ub'\&]ghcf]gWXYb'GhÀhhYb'i bX'_i `hi fY``Yb'9bhXYW_i b[Yb\check{z}'X]Y'bi f'XUfUi Z'k UfhYb\check{z}'Yf_i bXYh'ni 'k YfXYb'''J cb'U`hYfhØa `]WXYb Fi]bYb'V]g'ni 'VYXYi hYbXYb'A i gYYb'[]Vh'Yg'ZØf'YXYb'; YgWX]WX hg! <math display="block"> [bX'?i \grave{h}i f]bhYfYgg]YfhYb'Yhk Ug'ni 'YbhXYW_Yb'''<]Yf'g]bX'Y]b][Y<][\&`][\&`][\&'][\&'][\&']Y'G]Y'Ui Z'&' fYf'FY]gY'b]WX'h'j YfdUggYb'gc``hYb'''$

%"'<]ghcf]gWX Yg'NYbhfi a 'j cb':]bUbnYb

8 Ug`\]ghcf]gWXY`NYbhfi a `j cb`:]bUbnYb`]ghY]bY`k]WXh][Y`I B9G7C! K Y`h_i `hi fYfVYghÀhhY"' <]Yf`_ÒbbYb`G]Y`Xi fWX`WXUfa UbhYž [YdZ`UghYfhY`GhfU» Yb`gWX`YbXYfb`i bX`VYY]bXfi W_YbXY`; YVÀi XY VYk i bXYfbž`X]Y`X]Y`; YgWX]WXhY`XYf`GhUXh`k]XYfgd]Y[Y`b" 6YgcbXYfg`VYa Yf_Ybgk Yfh`g]bX.

- 8]Y'A Uf_hd`Uhn!GhUhi Y.'9]b']_cb]gW\Yg'K U\fnY]W\Ybž XUg'cZh'U`g'Gma Vc`'XYf'GhUXh'VYhfUW\hYh'k]fX"
- 8]Y'; fc»Y'?]fWXY.'9]b'VYY]bXfi W_YbXYg'6Y]gd]Y` [ch]gWXYf'5fWX]hY_hi f'a]h'\Yff']WXYb'; 'UgZYbghYfb"
- 8 Ug 'U 'hY 'F Uh\ Ui g. '9]b '\]ghcf]gW\ Yg'; YVÀi XYž'XUg'\ Yi hY Y]b 'A i gYi a 'VY\ YfV Yf[h"

:]bUbnYb`\Uh`Y]bY``YVYbX][Y`AigYiag`UbXgW\UZhž`X]Y`gckc\`?ibgh'U`g`UiW\;YgW\]W\hY`iaZUggh"'9]b][Y`XYf`VYXYihYbXghYbAigYYb`g]bX.

- 8 Ug GhUX ha i gYi a . '<]Yf YfZU\fYb G]Y 'U``Yg ØVYf X]Y
 ; YgWX]WX hY 'j cb ':]bUbnYbž'j cb 'XYf 5bh]_Y 'V]g'ni f
 a cXYfbYb 'NY]h"
- ?i bgh[U`Yf]Y:]bUbnYb. '8]YgY; U`Yf]Y'dfÀgYbh]Yfh
 K Yf_Y'j cb'`c_U`Yb'i bX']bhYfbUh]cbU`Yb'?Øbgh`Yfb'i bX
 V]YhYh'fY[Y`a À»]['K YWXgY`Ui gghY``i b[Yb"
- HYW b]_a i gYi a . '9]b 'ZUgn]b]YfYbXYg'A i gYi a ž'XUg'X]Y
 9bhk]W_i b['XYf'HYW bc'c[]Y']b 'XYf'FY[]cb'bUW nY]W bYh"

' "'FY`]_hY'XYf'JYf[Ub[Yb\Y]h

8]Y'l a [YVi b['j cb':]bUbnYb']gh'YVYbZU``g'fY]W\'Ub'\]ghcf]gW\YbGh\AhhYb"'9]b][Y'VYa Yf_Ybqk YfhY'CfhY'g]bX.

- 8]Y'U`hYb'Fi]bYb'jcb'LMN.'8]YgY'Ubh]_Yb'Fi]bYb V]YhYb'Y]bYb'UiZfY[YbXYb'9]bV`]W_']b'XUg'@YVYb'jcf hUigYbXYb'jcb'*J\fYb"
- GWX`cgg`:]bUbnYb. '9]b`a UYghÀh]gWXYg`GWX`cgg`a]h \Yff`]WXYb'; ÀfhYbž'XUg`\Yi hY`U`g'JYfUbghU`hi b[gcfh'X]Ybh"
- 8 Yf'\]ghcf]gW\Y'5i gg]W\hghi fa .'Jcb'\]Yf'Ui g'\UVYb G]Y'Y]bYb'UhYa VYfUi VYbXYb'6`]W_'ØVYf'X]Y'GhUXh'i bX'XUg La`UbX"

("'?i `hi fY``Y J YfUbghU`hi b[Yb i bX : YghY

 \pm :]bUbnYb Z]bXYb XUg [UbnY \pm \ f \ ØVYf \ nU\ \ fY]W\ Y \ _i \ hi fY \ \ Y \ J YfUbghU \ hi \ b [Yb \ ghUhh \ '' <]Yf \ g]b X \ Y]b][Y \ <][\ \ \][\ hg.

- 8 Ug 'hfUX]h]cbY``Y'Jc`_gZYgh.'9]b': Yghž'XUg'`c_U`Y GdY]gYbž'A i g]_'i bX'HUbn'ZY]Yfh"'<]Yf'_ÒbbYb'G]Y'X]Y fY[]cbU`Yb'6fÀi WXY'\Ui hbU\'Yf`YVYb"
- 8 Ug:]`a ZYgh]j U`. '9]b'VY`]YVhYg'9j Ybhž'XUg
]bhYfbUh]cbU`Y'i bX'`c_U`Y':]`a Y'dfAgYbh]Yfh'i bX'cZh'a]h
 gdUbbYbXYb'DcX]i a gX]g_i gg]cbYb'j YfVi bXYb']gh"
- ?i bgh! i bX '< UbXk Yf_ga Uf_h. '9]b 'A Uf_hž'Ui Z'XYa
 `c_U`Y '? Øbgh`Yf'i bX '< UbXk Yf_Yf']\fY 'K Yf_Y'dfÀgYbh]YfYb"
 9]b 'dYfZY_hYf'C fhž'i a 'Y]b 'Gci j Yb]f'ni 'Z]bXYb"

) " '? i `]bUf]gW\Y '9fZU\fi b[Yb

?i `hi fY``Y '9bhXYW_i b[Yb'gW\`]Y \gg Yb'Ui W\`X]Y'?ØW\Y'Y]b"'J]Y`Y FYghUi fUbhg']b':]bUbnYb'gYfj]YfYb'; Yf]W\hYž'X]Y'Ui Z hfUX]h]cbY``Yb'FYnYdhYb'VUg]YfYb"'DfcV]YfYb'G]Y'i bVYX]b[h.

- 8]Y``c_U`Y`GdYn]U`]hÀh`L M`'9]b'; Yf]W\hž'XUg'Ui g
 fY[]cbU`Yb'Ni hUhYb'ni VYfY]hYh'k]fX"
- < Ub X k Yf_`]W\ '[YVfUi hY '6]YfY. '6Ygi W\ Yb 'G]Y 'Y]bY 'XYf

- j]Y`Yb`6fUi YfY]Yb`ZØf`Y]bY`J Yf_cghi b["

8]Y; YgW\]W\hYi bX`X]Y?i`hi f'j cb`:]bUbnYb`g]bX`b]W\h`bi f`]b`XYb A i gYYb`i bX`\]ghcf]gW\Yb`GhÀhhYbž'gcbXYfb`Ui W\`]a `hÀ[`]W\Yb @YVYb`XYf`9]b\Y]a]gW\Yb`gdØfVUf"`K Yf`g]W\`ÒZZbYh`i bX`X]Y j YfgW\]YXYbYb`: UWYhhYb`X]YgYf`k i bXYfVUfYb`FY[]cb`YbhXYW_hž k]fX`a]h`i bj Yf[Ygg`]W\Yb`9f`YVb]ggYb`VYfY]W\Yfh`ni fØW__Y\fYb"

HUVY``YbØVYfg]WX h'XYf'\]ghcf]gWX Yb 'GhÀhhYb']b :]bUbnYb

GhÀ hhY	6YgcbXYf\Y]hYb	² ZZbi b[gnY]hYb
<]ghc f]gWX Y g	IB9G7C!	HÀ[`]W.'\$\$\$'
NYbhfi a	K Y`h_i `hi fYfVYž	%, .\$\$
	VYY]bXfi W_YbXY	
	5fWk]hY_hif	
GhUXha i gYi a	I a ZUggYbXY	8]!Gc.'%\$.\$\$' '%+.\$\$
	\]ghcf]gW\Y	
	5i gghY``i b[Yb	
GWX`cgg':]bUbnYb	ΑUΎghÀh]gWXYf	A]!Gc.'%\$.\$\$''%,.\$\$
	5 b V`]W <u></u> ž'gW\ Òb Y	
	; ÀfhYb	

J YfUbghU`hi b[Yb i bX : YghYž'X]Y a Ub b]WX h j YfdUggYb gc``hY

K Ybb YgʻXUfi a '[Y\hž'X]Yʻ?i `hi fʻi bXʻXUgʻ@YVYbʻ]bʻ:]bUbnYbʻni YfʻYVYbžʻ[]VhʻYgʻ_Y]bYb VYggYfYbʻK Y[žʻUʻgʻX]YʻnU\`fY]WXYb J YfUbghUʻhi b[Ybʻi bXʻ: YghYʻni ʻVYgi WXYbžʻX]YʻXUgʻ[UbnYʻ\J\fʻØVYf ghUhhZ]bXYbʻ'8]YgYʻ9j YbhgʻV]YhYbʻb]WXhʻbi fʻY]bYbʻ9]bV`]W_ʻ]bʻX]Y HfUX]h]cbYbʻi bXʻ6fÀi WXYʻXYfʻFY[]cbžʻgcbXYfbʻVf]b[YbʻUi WX 9]b\Y]a]gWXYʻi bXʻ6Ygi WXYf'ni gUa a Ybžʻi a '[Ya Y]bgUa ʻni ZY]Yfb''<]Yfʻg]bX'Y]b][YʻXYfʻVYghYbʻJ YfUbghUʻhi b[Ybž'X]YʻXi k À\fYbXʻY]bYgʻ6Ygi WXgʻ]bʻ:]bUbnYbʻb]WXhʻj YfdUggYbʻgc``hYgh

• :]bUbnZYgh. '9]b'^À\f`]WXYg'GhUXhZYghž'XUg']a 'Gca a Yf

- [YZY]Yfh'k]fX"'<]Yf'[]Vh'Yg'`c_U`Y'A i g]_ž'?i bgh\UbXk Yf_ i bX'_i `]bUf]gW\Y'? Ògh`]W_Y]hYb'Ui g'XYf'FY[]cb"
- K Y]bZYgh. → XYfK Y]bfY[]cb; cb:]bUbnYbZ]bXYhUYYfnk Y] → XYfK Y]bYgK Y]bZYghghUhhžXUgK Y]bY\UVYfUi gXYf[UbnYbK Y`hUbn]Y\h"DfcV]YfYbG]YYfYgYbYK Y]bYi bX[Yb]Y»YbG]Y@jY!?cbnYfhYi bXhfUX]h]cbY`YHUbnUi ZZØ\fi b[Yb"
- C_hcVYfZYgh. '5i W.':]bUbnYb'\UhrgY]b'Y][YbYg
 C_hcVYfZYghž'VY]'XYa 'X]Y'6Ygi W.Yf'Y]b'Vi bhYg
 FU\a Ybdfc[fUa a 'a]h'HfUW.hYbž'6]YfnY`hYb'i bX
 fY[]cbU`Yb'6]YfgdYn]U`]hÀhYb'[Yb]Y»Yb'_ÒbbYb"'9]b'Aigg
 ZØf'YXYbž'XYf'X]Y'VUmf]gW.Y'?i `hi f'Yf`YVYb'a ÒW.hY°
- K Y]\bUWk hga Uf_h. 8 Yf'K Y]\bUWk hga Uf_h']b':]bUbnYb
 j Yfk UbXY`h'X]Y'GhUXh']b'Y]b'K]bhYfk i bXYf`UbX"'6i bhY
 GhÀbXYž'; `Ø\k Y]b'i bX'ZYgh`]WkY'@]WkhYf'a UWkYb'X]YgYb
 A Uf_h'ni 'Y]bYa 'XYf'gWk ÒbghYb'XYf'FY[]cb"

9]b'k Y]hYfYg'<][\`][\h']gh'XUg': Ygh]j U``XYf'?i `hi fYbžXUg'X]Y
j YfgWX]YXYbYb'9h\b]Yb'i bX'?i `hi fYb'nY`YVf]Yfhž'X]Y']b':]bUbnYb
`YVYb"'<]Yf'_ObbYb'; ÀghY'Ui g'U``Yf'K Y`h'hfUX]h]cbY``Y'HÀbnYž
A i g]_'i bX'_i `]bUf]gWXY'GdYn]U`]hÀhYb'[Yb]Y»Yb"'9g']gh'Y]bY
[fc»Ufh][Y'; Y`Y[Yb\Y]hž'a Y\f'ØVYf'X]Y'a i `h]_i `hi fY``Y
; YgY``gWXUZh'XYf'FY[]cb'ni 'YfZU\fYb'i bX'g]WX'a]h'9]b\Y]a]gWXYb
Ui gni hUi gWXYb"

 $8]Y ``YhnhYb ``$U \setminus fY `` UVYb ``Ui `W. `X][]hU`Y ``9j Ybhg`[YgW. UZZhz``X]Y VYgcbXYfg`]b ``NY]hYb `j cb ``DUbXYa]Y `i bX ``C b`]bY! <math>\Rightarrow$ hYfU_h]cbYb ``Ub 6YXYi hi b[`[Yk cbbYb `\ UVYb" ``8]YgY ``9j Ybhg`Yfa Ò[`]W. Yb `Ygz``X]Y HfUX]h]cbYb `i bX `XUg``9fVY `j cb `:]bUbnYb ``Ui W. ``Ui g`XYf`: YfbY `ni ZY]Yfb" ``J]fhi Y``Y `K Y]bdfcVYb `i bX `? cbnYfhY `g]bX `bi f`Y]b][Y 6Y]gd]Y`Y `XUZØfz``k]Y ::]bUbnYb `g]W. `UbdUggYb `i bX `XYbbcW. `X]Y 9ggYbn`gY]bYf`: YghY `VYk U\fYb"

9j Ybh_U`YbXYf`ZØf::]bUbnYb

JYfUbghU`hib[8 Uhi a	Cfh
:]bUbnZYgh	 `	GhUXhd`Uhn
K Y]bZYgh	GYdhYa VYf'fU``Y	K Y]bfY[]cb

JYfUbghU`hib[8 Uhi a	Cfh
	nk Y] [・] 划\fYŁ	:]bUbnYb
C_hcVYfZYgh	C_hcVYf	GhUXhnYbhfi a
K Y]\bUW\hga Uf_h	8YnYa VYf	<pre><]ghcf]gW\Y'5`hghUXh</pre>
: Ygh]j U`XYf'?i `hi fYb	A U]	GhUXhdUf_

8]Y 'HY] 'bU\a Y 'Ub 'X]YgYb 'J YfUbghU'hi b[Yb ']gh'b] Wh'bi f'Y]bY
A O[`]W_Y]hz'X]Y '`c_U`Y '?i 'hi f'ni 'Yf`YVYbz'gcbXYfb 'Ui W\ 'Y]bY
7\UbWz'A YbgW\Yb 'Ui g'j YfgW\]YXYbYb 'HY] 'Yb 'XYg '@UbXYg'cXYf
gc[Uf'XYf'K Y`h'_YbbYbni 'YfbYb" '8]Y 'a Y]ghYb '9j Ybhg']b':]bUbnYb
g]bX 'ZUa]`]YbZfYi bX`]W\ 'i bX 'V]YhYb '5_h]j]hÀhYb 'ZØf' 'YXYg'5`hYf" '8]Y
5ha cgd\ÀfY']gh'cZh'`YV\UZh'i bX 'Y]b`UXYbXz'i bX'Yg'[]Vh'j]Y`Y
; Y`Y[Yb\Y]hYbz'`c_U`Y'GdYn]U`]hÀhYb'ni 'dfcV]YfYb'cXYf'Gci j Yb]fg
ni '_Ui ZYbz'X]Y'j cb'hU`Ybh]YfhYb'?i bgh\UbXk Yf_Yfb'\Yf[YghY``h
k YfXYb"

K YbbʻXiʻd`Ubghž:]bUbnYbʻniʻVYgi WXYbži]bZcfa]YfYʻX]WXʻØVYfʻX]YgdYn]Z]gWXYbʻHYfa]bYʻi bXʻ9j YbhgžʻX]Yʻk À\fYbXʻXY]bYg
5i ZYbh\UʻhgʻghUhhZ]bXYb"'@c_UʻYʻHci f]ghYb]bZcfa Uh]cbgnYbhfYb
cXYfʻK YVgY]hYbʻg]bXʻ\Yfj cffU[YbXYʻFYggci fWbžʻi a 'U_hi Yʻ`Y

♣bZcfa Uh]cbYbʻni ʻXYbʻJ YfUbghUʻhi b[Ybʻni ʻYf\UʻhYb"'G]Yʻ_ÒbbYb
Ui WXʻbØhn`]WXYʻH]ddgʻZØfʻX]YʻHY]ʻbU\a YʻUbʻVYgh]a a hYbʻ: YghYb
V]YhYbžʻXUfi bhYfʻ8YhU]ʻgʻni ʻH]W_YhgžʻHfUbgdcfha Ò[`]WX_Y]hYbʻi bX
VYgcbXYfYʻ<Ò\Ydi b_hYžʻUi ZʻX]Yʻa UbʻUWXhYbʻgc``hY''

I a 'XUg'6YghY'Ui g'XY]bYa '6Ygi W\']b':]bUbnYb'\YfUi gni \c`Ybž d`UbY'XY]bY'FY]gY'i a 'Y]bY'cXYf'a Y\fYfY'X]YgYf'[fc» Ufh][Yb J YfUbghU`hi b[Yb"'8]Y'9f]bbYfi b[Ybž'X]Y'Xi 'Xcfh'gUa a Y`ghž k YfXYb'X]f'Y]b'@YVYb'`Ub['Yf\U`hYb'V`Y]VYb°

H]ddg'ZØf'X]Y'VYghY'FY]gYnY]h'i bX I bhYf ØbZhY']b':]bUbnYb

:]bUbnYbžY]b'cZh'i bhYfgW\AhnhYg'FY]gYn]Y`ž'\Uh'j]Y`a Y\f'ni V]YhYbž'U`g'Yg'Ui Z'XYb'YfghYb'6`]W_'gW\Y]bh''8]Y'VYghY'FY]gYnY]h \Ab[h'j cb'j YfgW\]YXYbYb': U_hcfYb'UVž'XUfi bhYf'XUg'K YhhYfž JYfUbghU`hi b[Yb'i bX'dYfgÒb`]W\Y'Jcf`]YVYb'''<]Yf']gh'Y]b , VYfV`]W_ž'k Ubb'G]Y':]bUbnYb'Ua 'VYghYb'VYgi W\Yb'gc``hYb'i bX

8]Y VYghY FY]gYnY]h

8]Y']XYU`Y'NY]h'ZØf'Y]bYb'6Ygi W\']b':]bUbnYb']gh']b'XYf'FY[Y`nk]gW\Yb'A U]'i bX'GYdhYa VYf"' \pm b'X]YgYb'A cbUhYb'dfcZ]h]YfYb FY]gYbXY'j cb'Ub[YbY\a Yb'HYa dYfUhi fYbž'X]Y'g]W\'dYfZY_h'ZØf Ci hXccf!5_h]j]hÀhYb'Y][bYb"'8]Y'[YbUi Yb'6YX]b[i b[Yb'j Uf]]YfYb YXcW\'i bX'Yg'`c\bh'g]W\'ž'X]Y'Zc`[YbXYb'5gdY_hY'ni VYfØW_g]W\'h][Yb.

- : fØ\`]b['fA Àfn'V]g'A U]Ł.'A]`XYg'K YhhYf'i bX'V`Ø\YbXY DZUbnYbž']XYU``ZØf'K UbXYfi b[Yb'i bX'9f_i bXi b[Yb']b'XYf BUhi f"
- Gca a Yf flib b] V]g 5i [i ghŁ K Ufa i bX YV \ UZh a]h
 j YfgW]YXYbYb : Ygh]j U`g i bX J YfUbghU`hi b[Yb" 8]Yg]gh
 X]Y < Ui dhfY]gYnY]h a]h Y]bYf J]Y`nU\`j cb 5_h]j]h AhYb"
- < YfVghflGYdhYa VYf'V]g'Bcj Ya VYfŁ. K i bXYfgWX ObY < YfVghZUfVYb'i bX'k Yb][Yf'Hci f]ghYb"'9]bY'[fc» Ufh][Y'NY]h ZØf'fi \][Y'GdUn]Yf[Àb[Y'Xi fWX'X]Y'@UbXgWXUZh"
- K]bhYf fl8 YnYa VYf V]g: YVfi UfŁ. ? À`hYfY
 HYa dYfUhi fYbž UVYf Ui W Y]bY a U[]gWXY 5ha cgd\AfYž
 VYgcbXYfg i a X]Y: Y]YfhU[Y \Yfi a a]h
 K Y]\bUW hga Af_hYb i bX ZYgh`]WXYb 9j Ybhg"

I bhYf_ØbZhY`]b:]bUbnYb

 $:]b Ub n Yb `V] Y h Y h Y] b Y `V f Y] h Y `DU `Y h h Y `Ub `I b h Y f_i b Zhga \`O[`] W _Y] h Y b z X] Y `Y X Ya `F Y] g Y V i X [Yh '[Y f Y W h 'k Y f X Y b " `J c b ``i I i f] Og Y b ' < c h Y `g V] g `\] b `ni `[Ya Øh`] W X Yb `D Y b g] c b Y b `[] V h Y g `j] Y ``ni `Y b h X Y W_Y b " <] Y f g] b X `Y] b] [Y `Ya d Zc \ `Y b Y `I b h Y f_Øb Zh Y `] b `j Y f g W] Y X Y b Y b D f Y] g_Uh Y [c f] Y b .$

l bhYf_i bZh	DfY]g_`UggY	6YgcbXYf\Y]hYb
<chy`dubcfua td="" u<=""><td></td><td>9`Y[UbhY'N]a a Yf</td></chy`dubcfua>		9`Y[UbhY'N]a a Yf
		a]h'6Yf[V`]W_'i bX
		KY``bYggVYfY]W\
DYbg]cb ni f		; Ya Øh`]W\Y

l bhYf_i bZh	DfY]g_`UggY	6YgcbXYf\Y]hYb
6Yf[_`Ui gY		5ha cgd\ÀfY a]h
		: fØ\ghØW_`]b_`i g]j Y
< c ghY``:]b Ub nY b		6YnU\`VUfY
		AY∖fVYhhn]a aYfž
]XYU``ZØf
		FiW_gUW_hcif]ghYb
: Yf]Ybk c\bi b['Ua		GY`Vghj Yfgcf[Yfž
GYY]XYU``ZØf': Ua]`]Yb
		i bX'; fi ddYb

 $9[\ U`\check{z}`cV`G]Y`Y]b``i\ I\ i\ f]\grave{O}gYg`9f`YVb]g`cXYf`Y]bY`_fYUh]j\ Y \\ Vi\ X[\ YhZfYi\ bX`]WXY`Cdh]cb`gi\ WXYb\check{z}`:\]bUbnYb`\Uh`ZØf`YXYb`Yhk Ug \\ ni\ `V]YhYb"`J\Yf[\ YggYb`G]Y`b]WXhž`]a \ `J\cfUi\ g`ni\ `Vi\ WXYbž \\]bgVYgcbXYfY`k\ A\fYbX`XYf`<cWXgU]gcbž`i\ a\ `X]Y`VYghYb`5b[\ YVchY\ ni\ `g]WXYfb"$

JYfUbqhU`hi b[Yb'i bX'5_h]j]hÀhYb

8]Y 'VYghY 'NY]h' \mathbb{Z} of 'Y]bYb' 6Ygi W\ '_Ubb' Ui W\ 'j cb' `c_U`Yb J YfUbghU`hi b[Yb' UV\\ Ab[Yb'' '9]b][Y': YghYž'X]Y' G]Y' b]W\ h'j Yfd UggYb gc``hYbž'g]bX.

- : fØ\`]b[ZYgh'fl5df]`Ł. '9]b'Vi bhYf'A Uf_h'a]h'`c_U`Yb DfcXi _hYb'i bX'hfUX]h]cbY``Ya '9ggYb"
- ?i `hi fZYgh'fl5i [i ghŁ. '9]b': Ygh]j U`'a]h'Aig]_ž'HUbn'i bX ?i bgh'Ui g'XYf'FY[]cb"
- K Y]\bUW\hga Uf_h`f\BYnYa VYf\. '9]b`nUi VYf\UZhYf
 A Uf_h`a]h`\UbX[Ya UW\hYb'; YgW\Yb_Ybž'; `Ø\kY]b`i bX
 ZYgh`]W\Ya '9ggYb"

8]YgY'JYfUbghU`hi b[Yb'V]YhYb'Y]bY'\Yfj cffU[YbXY'A Ò[`]W_Y]hž a]h'XYf'?i`hi f'j cb':]bUbnYb']b'?cbhU_h'ni 'hfYhYb'i bX'X]Y 9]b\Y]a]gW\Yb'_YbbYbni 'YfbYb"

H]ddg ZØf X]Y 5bfY]gY

 $8\,]Y\,^5bfY\,]gY\,^bUWX\,^:\,]bUbnYb\,^]gh'i\,\,b_ca\,\,d\,^]n]Yfh''\,^C\,V\,^a\,\,]h'XYa\,^*5i\,\,hc\,\check{z}$

D`UbYb`G]Y`fYW\hnY]h]['=\ fY`5bfY]gY`i bX`dfØZYb`G]Y`j YfgW\]YXYbY HfUbgdcfha Ò[`]W_Y]hYbži a 'X]Y`ZØf`G]Y`dUggYbXY`Cdh]cb`ni Z]bXYb"'9g`_Ubb`Ui W\`\]`ZfY]W\`gY]bž`XYb`ÒZZYbh`]W\Yb`BU\j Yf_Y\f j cf`Cfh`ni 'bi hnYbži a 'X]Y`I a [YVi b['ni 'Yf_i bXYbž`c\bY`Ui Z`Y]b 5i hc`Ub[Yk]YgYb`ni 'gY]b"

8 Y hU]`g

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'Y]bY!fY]gY "XY