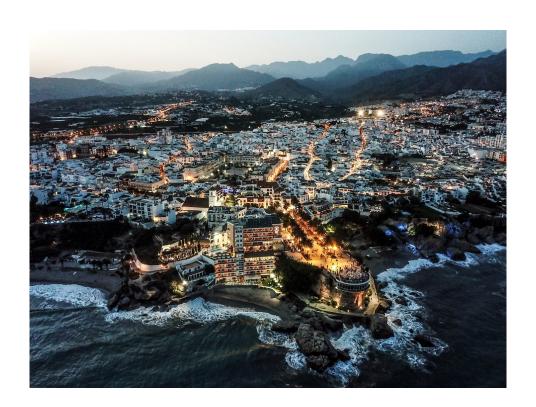


9i fcdU'9bhXYW_Yb.'?i`]bUf]_ž'BUhi f'i bX ?i`hi f'j cb'5'V]g'N

9bhXYW_Yb^G]Y^X]Y^ZUgn]b]YfYbXYb^GhÀXhY^9i fcdUgž _i `]bUf]gW\Y^<][\`][\hgžBUhi fk i bXYf'i bX^_i `hi fY``Y GW\AhnY^=f'i `h]a Uh]j Yf^FY]gYZØ\fYf^ZØf'i bj Yf[Ygg`]W\Y 5VYbhYi Yf°



K]`_ca a Yb Ui Zi bgYfYf gdUbbYbXYb '9bhXYW_i b[gfY]gY Xi fWX 9i fcdU "8]YgYg ZUgn]b]YfYbXY '? cbh]bYbhž fY]WX Ub ; YgWX]WX hYž?i `hi fi bX 'GWX Ob\Y]hž V]YhYhi bnÀ\`][Y 'A O[`]WX_Y]hYb 'ZØf
FY]gYbXYž X]Y 'VYfY]hg]bXž X]Y 'J]Y`ZU`hi bX XUg '9fVY 'gY]bYf @AbXYf
ni 'Yf_i bXYb "J cb 'di `g]YfYbXYb 'GhÀXhYbž X]Y 'a]h @YVYb i bX
?fYUh]j]hÀh 'YfZØ` `hYb 'g]bXž 'V]g'\]b 'ni 'i bj Yf[`Y]WX `]WX Yb
B Uhi f`UbXgWX UZhYbž X]Y 'ni a 'GhUi bYb 'Y]b`UXYbž 'nY][h'9i fcdU'g]WX
]b 'U`` 'gY]bYf 'DfUWX h" '₺ 'i bgYfYa '5fh]_Y` 'bY\a Yb 'k]f'X]WX 'a]h'Ui Z
Y]bY 'FY]gY 'Xi fWX 'X]Y 'Ui ZfY[YbXghYb 'GhÀXhYž `UXYb 'X]WX 'Y]bž 'X]Y
Y |bn][Ufh][Yb '_i `]bUf]qWX Yb '? Ogh`]WX_Y]hYb 'XYf 'FY[]cb 'ni

5i » YfXYa 'k YfZYb'k]f'Y]bYb'6`]W_'Ui Z'Y]b][Y'XYf
VYY]bXfi W_YbXghYb'I B9G7C!K Y`hYfVYghÀhhYbž'X]Y'i bVYX]b[h']b
XY]bY'FY]gY`]ghY'Ui Z[Ybca a Yb'k YfXYb'gc``hYb"'9[U`ž'cV'Xi 'Y]b
Ci hXccf!9bh\i g]Ugh'V]ghž'XYf'XUg'bÀWXghY'5VYbhYi Yf'gi WXhž'cXYf
Y]b'?i `hi fZUbž'XYf'nY]h`cgY'HfUX]h]cbYb'i bX': Ygh`]WX_Y]hYb'Yf`YVYb
a ÒWXhYž'\]Yf'[]Vh'Yg'ZØf'YXYb'YhK Ug"'@Ugg'i bg'[Ya Y]bgUa
Ui ZVfYWXYb'i bX'X]Y'GWXÀhnY'9i fcdUg'YbhXYW_Yb'' XY]b'bÀWXghYg
[fc» Yg'5VYbhYi Yf'K UfhYh'bi f'XUfUi Zž'Yf_i bXYh'ni 'K YfXYb''

9bhXYW_i b[gfY]gY Xi fW X]Y ZUgn]b]YfYbXYb GhÀXhY 9i fcdUg

9i fcdU']gh'Y]b'?cbh]bYbh'j c``Yf'VYY]bXfi W_YbXYf'GhÀXhYž'X]Y''YXY ZØf'g]W\'Y]bY'Y][YbY'; YgW\]W\hY'YfnÀ\`Yb"'J ca '[`Ua ci fÒgYb DUf]g'V]g'\]b'ni 'XYb'W\Ufa UbhYb'?UbÀ`Yb'j cb'JYbYX][''''YXY GhUXh'\Uh']\fYb'Y][YbYb'7\UfU_hYf'i bX'V]YhYh'Y]bY'J]Y`nU\`'j cb 9f`YVb]ggYb'i bX'GY\Ybgk ØfX][_Y]hYb"'<]Yf'g]bX'Y]b][Y'XYf ZUgn]b]YfYbXghYb'GhÀXhYž'X]Y'Xi 'Ui Z'XY]bYf'9bhXYW_i b[gfY]gY Xi fW\'9i fcdU'i bVYX]b[h'VYgi W\Yb'gc``hYgh"

DUf]gž: fUb_fY]W

8]Y'GhUXh'XYf'@]YVY'n]Y\h'6Ygi W\Yf'a]h']\fYa 'i bj Yf[`Y]W\`]W\Yb 7\Ufa Y'Ub"'5i Z'Y]bYa 'GdUn]Yf[Ub['Ybh`Ub['XYf'GY]bY'_Ubbgh'Xi]_cb]gW\Y'GY\Ybgk ØfX][_Y]hYb'k]Y'XYb'9]ZZY`hi fa ž'XYb'@ci j fY i bX'X]Y'?Uh\YXfU`Y'BchfY!8Ua Y'VYghUi bYb"'JYf[]gg'b]W\hž']b Y]bYa 'XYf'nU\`fY]W\Yb'6]ghfchg'Ubni \U`hYbž'i a 'Y]b'_Ògh`]W\Yg 7fc]ggUbh'cXYf'Y]bY'HUggY'7UZÅ'WfÄa Y'ni '[Yb]Y»Yb"

Fca ž =hU`]Yb

Fca ž'X]Y'Yk][Y'GhUXhž']gh'Y]b'GW\a Y`nh]Y[Y`XYf'; YgW\]W\hY'i bX ?i`hi f"'8]Y'Ubh]_Yb'Fi]bYb'k]Y'XUg'?c`cggYi a 'i bX'XUg': cfi a Fca Ubi a 'YfnÀ\`Yb'j cb'Y]bYf'[`cffY]W\Yb'JYf[Ub[Yb\Y]h" GWX`YbXYfY`Xi fWX`X]Y`a U`Yf]gWXYb`; UggYb`HfUghYj YfYg`i bX YbhXYW_Y`j YfghYW_hY`D]UnnUg"`I bX`bUhØf`]WX`XUfZ`Y]b`6Ygi WX`XYf J Uh]_UbghUXhž`a]h`XYa `VYY]bXfi W_YbXYb`DYhYfgXca `i bX`XYf G]I h]b]gWXYb`?UdY``Yž`b]WXh`ZY\`Yb"

6UfWY`cbUž'GdUb]Yb

6UfWY`cbU']gh'VY_Ubbh'ZØf']\fY`UhYa VYfUi VYbXY'5fW\]hY_hi fž
]bgVYgcbXYfY'X]Y'K Yf_Y'j cb'5bhcb]'; Ui XÉ'8]Y'GU[fUXU': Ua É]U
]gh'Y]b'A Y]ghYfk Yf_ž'XUg'6Ygi W\Yf'Ui g'XYf'[UbnYb'K Y`h'Ubn]Y\h''
8 Ug'j]VfUbh'_i `hi fY``Y'@YVYbž'X]Y'ZfYi bX`]W\Yb'9]b\Y]a]gW\Yb
i bX'X]Y'_Ògh`]W\Y'gdUb]gW\Y'?ØW\Y'a UW\Yb'X]Y'GhUXh'ni 'Y]bYa
A i gg"'5VgUW_Yf']b'Y]bYf'XYf'GhfUbXVUfgž' 7\]f]b[i]hcg ž'g]bX'XYf

5a ghYfXUa žB]YXYf`UbXY

8]Y'a U`Yf]gWXYb'; fUWXhYb'i bX`\]ghcf]gWXYb'<Ài gYf'a UWXYb
5a ghYfXUa 'ni 'Y]bYf'XYf'Zchc[YbghYb'GhÀXhY'9i fcdUg"'8i '_Ubbgh
X]Y'GhUXh'k i bXYfVUf'a]h'XYa ': U\ffUX'Yf_i bXYb'cXYf'Y]bY
6cchghci f'Xi fWX'X]Y'; fUWXhYb'a UWXYb"'8Yf'5bbY!: fUb_!<Ui g
i bX'XUg'J Ub!; c[\!Ai gYi a 'g]bX'bi f'Y]b][Y'XYf'j]Y`Yb'_i `hi fY``Yb
<][\`][\hgž'X]Y'6Ygi WXYf'Yfk UfhYb"

DfU[žHgWXYWX]gWXYFYdiV`]_

 $DfU[\check{z}'X]Y'[c`XYbY'GhUXh\check{z}'VYgh]WXh'XifWX'] Y'kibXYfgWX ObY \\ 5fWX]hY_hif'ibX'] Y'fY]WXY'; YgWX]WXhY''8]Y'DfU[Yf'6if['ibX'X]Y ?Uf`gVfØW_Y'g]bX'bif'Y]b][Y'XYf'VYY]bXfiW_YbXYb'CfhYž'X]Y'Xi \]Yf'YbhXYW_Yb'_Ubbgh'''9]b'5VYbXgdUn]Yf[Ub['XifWX'X]Y'5`hghUXhža]h'] Yfb'j]Y`Yb'6UffU[Yg'ibX'FYghUifUbhgž']gh'Y]bibjYf[Ygg`]WXYg'9f`YVb]g''$

6i XUdYghž I b [Ufb

8]Y'i b[Uf]gW\Y'< Ui dhghUXh'VYY]bXfi W_h'a]h']\fYb'H\Yfa Ybž'XYf VYY]bXfi W_YbXYb'5fW\]hY_hi f'i bX'XYa '`YV\UZhYb'BUW\h`YVYb"'9]b 6Ygi W\'XYf'6ÀXYfž'k]Y'XYa 'VYfØ\a hYb'GnÅW\Ybm]!6UXž']gh'Y]b UVgc`i hYg`A i gg"'5i Z`Y]bYf'6cchgZU\fh'Ui Z'XYf'8cbUi '_Ubbgh'Xi X]Y`k i bXYfgW\ÒbY`G_m`]bY`XYf`GhUXh'VYk i bXYfbž'VYgcbXYfg'VY] GcbbYbi bhYf[Ub["

6Y]'U```X]YgYb'GhÀXhYb'gc``hYgh'Xi 'Ui W\'X]Y'`c_U`Yb
J YfUbghU`hi b[Yb'i bX': YghY'b]W\h'j YfdUggYbž'X]Y'X]Y'?i `hi f'^YXYg
CfhYg'k i bXYfVUf'k]XYfgd]Y[Y`b"'A UW\'X]W\'VYfY]h'ZØf'bYi Y
5VYbhYi Yf']b'9i fcdU' 'Yg'[]Vh'gc'j]Y`ni 'YbhXYW_Yb''

?i`]bUf]gWXY'; YbØggY.'8]Y'VYghYb'GdY]gYb i bX'; YhfÀb_Y'XYf'FY[]cb

9i fcdU']gh'Y]b'?cbh]bYbh'XYf'J]Y`ZU`hži bX'XUg'[]`h']bgVYgcbXYfY ZØf'gY]bY'?ØW\Yb"'Jcb'XYb'fi gh]_U`Yb'5fca Yb'XYf'a YX]hYffUbYb ?ØW\Y'V]g'\]b'ni 'XYb'\Yfn\UZhYb'GdYn]U`]hÀhYb'XYg'BcfXYbg' 'X]Y _i `]bUf]gW\Yb'9f`YVb]ggY'g]bX'gc'Vi bh'i bX'ZUWYhhYbfY]W\'k]Y'X]Y @\AbXYf'gY`Vgh'' <]Yf'k YfZYb'k]f'Y]bYb'6`]\W_'Ui Z'Y]b][Y'XYf'VYghYb GdY]gYb'i bX'; Yhf\Ab_Y\Z'X]Y'9i fcdU'ni 'V]YhYb'\Uh'

±hU`]Yb. D]nnUï bX DUghU

: $fUb_fY]WX.^D^3/h]ggYf]Y^ibX^KY]b$

±0:: fUb_fY]WX 'j Yf`Ub[h'X]Y ']a a YbgYf'; Ybi gg'j cb'ZY]bYb'GdY]gYbbUWX 'Y]bYf'Y][YbYb'?i `hi f"'<]Yf'Yfk UfhYh'X]WX 'Y]bY'Yl ei]g]hY 5i gk U\`'Ub'D¾h]ggYf]Yž'Y]bgWX`]Y»`]WX 'A UWUfcbgž'¥WU]fg'i bX HUfhg"'8]Y 'ZfUbnÒg]gWXY'?ØWXY']gh'YVYbZU``g'ZØf']\fY'YX`Yb'K Y]bY VY_Ubbh'6cfXYUi I ž'6i f[i bX'i bX'7\Ua dU[bY'g]bX'bi f'Y]b][Y XYf'VY_UbbhYghYb'K Y]bfY[]cbYb'XYg'@UbXYg"'DU]f]b[ij cb'nUfhYa

7 ce 'Ui 'J]b 'a]h 'Y]b Ya '; `ÀgWX Yb 'F chk Y]b ']gh 'Y]b '9f `Y Vb]gž 'X Ug a Ub 'b]WX h 'j Yfd UggYb 'gc ``hY "

GdUb]Yb. HUdUgibX DUY``U

GdUb]gWXY'GdY]gYb'g]bX'VY_Ubbh'ZØf']\fY'; YgY``][_Y]h'''HUdUg'
_`Y]bYž'UVk YWXg`i b[gfY]WXY'; Yf]WXhY'k]Y'DUhUhUg'6fUj Ugž
; Ua VUg'U``5']``c'i bX'*JJa Î b'=\Af]Wc'' '`UXYb'XUni 'Y]bž'a]h
: fYi bXYb'ni 'ZY]Yfb'i bX'j YfgWX]YXYbY'; YgWXa ÀW_Yf'ni 'Yf`YVYb''
9]b'k Y]hYfYg'<][\`][\h']gh'X]Y'DUY``Už'Y]b'FY]g[Yf]WXh'Ui g
J U`YbW]Už'XUg'a]h'Vi bhYa'; Ya ØgYž'Zf]gWXYb'A YYfYgZfØWXhYb'cXYf
<Ø\bWXYb'ni VYfY]hYh'k]fX'''8Uni 'Y]b'YfZf]gWXYbXYg'GUb[f]U'cXYf
Y]b'; `Ug'7Uj Už'i bX'XYf'5VYbX'k]fX'dYfZY_h''

8 Yi hgWX`UbX. GWX b]hnY`i bX 6]Yf

K Ybb Ygʻi a `\Yfn\UZhYgʻ9ggYbʻ[Y\hžʻghY\YbʻX]Yʻ8Yi hgW\Ybʻ[Ubn cVYbʻUi ZʻXYfʻ@]ghY"'8 UgʻGW\b]hnY`` 'Y]bYʻdUb]YfhYʻi bXʻ[YVfUhYbY : `Y]gW\gW\Y]VY` ']ghʻY]bʻ?`Ugg]_YfžʻXYfʻcZhʻa]hʻ? UfhcZZY`gU`UhʻcXYf Dca a Ygʻ: f]hYgʻgYfj]Yfhʻk]fX"'8 Yi hgW\`UbX`\UhʻYXcW\`bcW\`j]Y` a Y\f'ni 'V]YhYb. 'j cbʻ6fYnY`bʻi bXʻ6fUhk i fghʻV]gʻ\]bʻni 'fY[]cbU`Yb? AgYgcfhYb"'I bXʻj Yf[YggYbʻk]fʻb]W\h`XUgʻ6]Yfʻ'8]YʻVUmYf]gW\Y 6]Yf_i `hi fʻ\Uhʻa]hʻXYa 'C_hcVYfZYghʻk Y`hVYfØ\a hY`8]a Ybg]cbYb Ub[Ybca a Yb"

GWk YXYb. ? OhhVi ``Uf'i bX'? bAW_YVfch

 $\pm 0.7G_UbX]bUj]Yb^1]gh^2GW_k k YXYb^1Y]b^1DUfUXYVY]gd]Y^1ZØf^Y]bZUW_kYZ_UVYf^1_Ogh^1]W_kY^2_QW_kY^1?OhhVi ^^1Uf^1fl ^Y]gW_kVA^^1W_kYb_k^1g]bX^1k_c ^^1XUg^1VY_UbbhYghY^1; Yf]W_khZ^1XUg^1cZh^1a_]h^1DfY]gY^1VYYfa_Ufa_Y^1UXY^1i_bX_2UfhcZZY^1dQfYY^1gYfj_]Yfh^1k_]fX^1?0bAW_YVfchZ^1Y]b^1_bi_gdf][Yg_Fc[[YbVfchZ^1VY[^Y]hYh^1X]Y^1a_Y]ghYb^1A_U\^nY]hYb^1Ni_XYa_1g]bX^1X]Y_GW_k YXYb^1ZQf^1]\^fY^1hc^1Yb^1GQ_w^1[_Y]hYbZ^1k_]Y^1N]a_hgW_kbYW_Yb_fP_UbY^1Vi^1Ufk^1i_bX^1X]Y^1VYfQ\a_hYb^1gW_k YX]gW_Yb^1; YVAW_YZ_VY_Ubbh''$

; f]YWXYb`UbX. `A ci ggU_U'i bX 'C`]j YbÒ`

; f]YWXYb`UbX`V]YhYhY]bY`XYf`[YgØbXYghYb`?ØWXYb`9ifcdUg"
A ci ggU_UžY]b`5i ZUi Z'Ui g`5i VYf[]bYbž'?UfhcZZY`b`i bX
<UW_ZY]gWXž']gh`Y]b`UVgc`i hYg`A i gg"`5i WX`X]Y`JYfk YbXi b['j cb
\cWXkYfh][Ya 'C`]j YbÒ`j Yf`Y]\h'XYb`; Yf]WXhYb`Y]bYb
i bj Yfk YWXgY`VUfYb`; YgWXa UW_": YhUž'HnUhn]_]ii bX`; mfcg`g]bX
k Y]hYfY`_Ògh`]WXY`6Y]gd]Y`Y`XYf`[f]YWX]gWXYb`; Ughfcbca]Yž'X]Y
]a a Yf`Xi fWX`Zf]gWXY`Ni hUhYb`i bX`Ufca Uh]gWXY`?fÀi hYf`VYgh]WXh"

6Y`]YVhY; YhfÀb_Y`]b'9i fcdU

@UbX	;YhfÀb_	6YgcbXYf\Y]hYb
±hU`]Yb	5dYfc`Gdf]hn	9fZf]gW\YbXYf
		7 c W_hU]`ž [·]]X Y U` [·] ZØf
		XYb Gca a Yf"
: fUb_fY]W\	7 UZÅ "Ui "@U]h	?UZZYY`a]h`\Y]»Yf
		A]`W\Y]b
		: fØ\ghØW_g_`Ugg]_Yf"
GdUb]Yb	< c f W UhU	9fZf]gW\YbXYg
		; Yhfàb_'Ui g
		9fXa UbXY`bž
		VYgcbXYfg ⁻]b
		JU`YbW]U"
8 Yi hgWX`UbX	K Y]nYbV]Yf	CZh'a]h'Y]bYf
		N]hfcbYbgWkY]VY
		gYfj]Yfhž'VYgcbXYfg
]a 'Gca a Yf"
GWk YXYb	GbUdg	?ifn'[Yhfib_YbžcZh
		VY[`Y]hYh'j cb'Y]bYa
		@]Y X "
; f]YWXYb`UbX	Cinc	5b]g`]_Òfž'XYf
		hfUX]h]cbY```U`g
		5dYf]h]Z [·] gYfj]Yfh
		k]fX"

%XYg'Yi fcdÀ]gWXY'@UbX'\Uh'gY]bY'Y][YbYb'i bj Yf[Ygg`]WXYb
_i `]bUf]gWXYb'9f`YVb]ggYž'i bX'Yg']gh'X]YgY'J]Y`ZU`hž'X]Y'Yg'ni 'Y]bYf
k U\fYb'; Ybi ggXYgh]bUh]cb'a UWXh"'9[U`ž'cV'Xi 'Y]b
: Y]bgWXa YW_Yf'V]gh'cXYf'Y]bZUWX'bi f'X]Y'?i `hi f'Xi fWX'9ggYb

 $\label{eq:continuous} $$Yf^YVYb^a \ OWAhYghz^9i \ fcdU^V]YhYh^ZOf^YXYb^Yhk \ Ug''< U^hY^XY]bY ; YgWA \ UW_g_bcgdYb^VYfY]h^-`X]Y^FY]gY^\Uh^[YfUXY^Yfgh \ VY[cbbYb^o]$

; Y\Y]a h]ddg'ZØf'X]Y'gWX ÒbghYb BUhi fYf`YVb]ggY']b'9i fcdU

9i fcdU']gh'b]W\h'bi f'ZØf'gY]bY'VYY]bXfi W_YbXYb'Gh\AXhY'i bX
_i `hi fY``Yb'GW\\AhnY'VY_Ubbh\z'gcbXYfb'Ui W\'ZØf'gY]bY
UhYa VYfUi VYbXYb'BUhi fYf`YVb]ggY"'9bh`Ub['XYf'? ØghYb\z']b'XYb
6Yf[Yb'i bX']b'XYb'[fØbYb'H\\A`Yfb'[]Vh'Yg'nU\`fY]W\Y'j YfghYW_hY
CfhY\z'X]Y'Yf_i bXYh'k YfXYb'k c``Yb"'<]Yf'g]bX'Y]b][Y'; Y\Y]a h]ddg
ZØf'i bj Yf[Ygg`]W\Y'BUhi fUVYbhYi Yf']b'9i fcdU"

%"8YfBUh]cbU`dUf_D`]hj]WYfGYYbž?fcUh]Yb

8 Y f 'B Uh]cbU`dUf_'D`]hj]\W f 'GYYb']gh'Y]bY'k U\fY'C UgY'Z\Øf B Uhi fZfYi bX.]bbYb'i bX'Y]b'I B 9G7C!K Y`h_i `hi fYfVY"'A]h'gY]bYb h\Øf_]gV`Ui Yb'GYYbž'X]Y'Xi f\W 'VYY]bXfi \W_YbXY'K UggYfZ\A``Y j YfVi bXYb'g]bXž'V]YhYh'XYf'DUf_'Y]bY'XYf'VYY]bXfi \W_YbXghYb @UbXg\W UZhYb'9i fcdUg"'<]Yf'_Ubbgh'Xi.

- K UbXYfi b[Yb'Ui Z'[i h'Ui g[YgWX]`XYfhYb'K Y[Yb i bhYfbY\a Yb"
- GWk]a a Yb^]b^Y]b][Yb^XYf^_`UfYb^GYYb^[Yb]Y»Yb"
- 8]Y'j]Y`ZÀ`h][Y': `cfU'i bX': Ui bU'VYcVUW\hYb"

H]dd. '6Ygi W\Y'XYb'DUf_'ZfØ\'Ua 'A cf[Ybž'i a 'XYb A YbgW\Yba Yb[Yb'ni 'Ybh_ca a Yb'i bX'X]Y'Zf]YX`]W\Y'5ha cgd\ÀfYni '[Yb]Y»Yb"

&"8]Y: ^cfXY Bcfk Y[Ybg

 $8]Y'bcfk Y[]gWkYb': ^cfXY'g]bX'ZØf'] \ fY'XfUa Uh]gWkY'GWk Ob \ Y]h VY_Ubbh'i bX'V]YhYb'Y]b][Y'XYf'VYghYb'BUhi fYf`YVb]ggY']b'9i fcdU'' 9]b'; Y\Y]a h]dd']gh'XYf'; Y]fUb[YfZ^cfXž'XYf'j cb'ghY]`Yb'6Yf[Yb i bX'hcgYbXYb'K UggYfZÀ``Yb'i a [YVYb']gh'''<]Yf'_Ubbgh'Xi .$

- 6cchghci fYb Xi fWX XYb : ^cfX i bhYfbY\a Yb"
- K UbXYfb Ui Z'XYb nU\`fY]W\Yb 5i gg]W\hgdi b_hYb"
- 8]Y'UhYa VYfUi VYbXYb'K UggYfZÀ``Yž'k]Y'X]Y Hfc``YZU``YbY'VYki bXYfb"

8]Y'Fi\Y'i bX'; Y`UggYb\Y]h'XYf'BUhi f'a UW\h'X]YgY'FY[]cb'ni Y]bYa 'dYfZY_hYb'F \emptyset W_ni [gcfh"

' "8]Y < c\Y HUhfUžG`ck U_Y]

 $8]Y' < c Y' HUhfU']gh'Y]b'k Yb][Yf'VY_UbbhYfž'UVYf'[Y]WkYfa U Yb VYY]bXfi W_YbXYf'; YV]f[gni [Y]b'XYf'G`ck U_Y]'' 8]YgY'FY[]cb']gh]XYU`'ZØf'K UbXYfYf'i bX'BUhi fVY[Y]ghYfhY''' <]Yf'_Ubbgh'Xi .$

- Ni 'gdY_hU_i `ÀfYb';]dZY`b'k UbXYfbž'k]Y'XYa
 ; Yf`UW\ciq Ù' hfh"
- 8]Y'k i bXYfgW\\ObYb'6Yf[gYYbž'k]Y'XYb' hfVg_\A'd\Ygcž Yf i bXYb"
- 8]Y'Y]bn][Ufh][Y'H]Yfk Y`h'VYcVUW hYbž'XUfi bhYf'; Àa gYb i bX'gY`hYbY'Jc[Y`UfhYb"

9]b 'YW\ hYf'; Y\Y]a h]dd ']gh'XYf'K]bhYfž'k Ybb 'X]Y '6Yf[Y ']b 'Y]bYf gW\ bYYVYXYW_hYb 'DfUW\ h'YfghfU\ `Yb 'i bX'\Yfj cffU[YbXY K]bhYfgdcfha $\dot{O}[$ `]W_Y]hYb 'V]YhYb"

("8]Y5ncfYbžDcfhi[U`

 $8]Y \cdot 5 nc fY b \cdot g] b X \cdot Y] b \cdot j \cdot Y fghY \underline{W}_hY g \cdot \not k \cdot Y \cdot] a \cdot 5 h \cdot U b h]_ \cdot i \cdot b X \cdot V Y ghY \setminus Y b \\ U i \cdot g \cdot b Y i \cdot b \cdot j \cdot i \cdot _U b] g \underline{W}_Y b \cdot \not = g Y \cdot b'' \cdot \not X Y f \cdot C \cdot f h \cdot V h \cdot g Y] b Y b \cdot Y] [Y b Y b \\ 7 \setminus U f a \cdot Y \cdot i \cdot b X \cdot V] Y h Y h \cdot Y] b n] [U f h] [Y \cdot B U h i \cdot f Y f \cdot Y V b] g g Y '' \cdot 5 i \cdot Z \cdot X Y b \cdot 5 nc f Y b \\ _ U b b g h \cdot X i \ .$

- K UbXYfi b[Yb'ni '\Y]» Yb'E i Y``Yb'i bX'Ji `_UbYb i bhYfbY\a Yb"
- K \U`Y`K UhW\]b[`i bX`8Y`Z]bVYcVUW\hi b[Yb`]\fYa bUhØf`]W\Yb`@YVYbgfUi a 'Yf`YVYb"
- 8]Y'VYY]bXfi W_YbXYb'?fUhYfgYYbž'k]Y'XYb'@U[cU'XUg GYhY'7]XUXYgž'VYgi WXYb"

A]h']\fYa 'a]`XYb'?`]a U'i bX'XYf'Ødd][Yb'JY[YhUh]cb'g]bX'X]Y 5ncfYb'Y]b']XYU`Yg'N]Y`'ZØf'BUhi f`]YV\UVYf"

) " 8 Y GcffYbh]bgWXY < UV]bgY`ž=hU`]Yb

- 8]Y'k i bXYfgW\ObYb'C`]j Yb\U]bY'i bX'N]hfi gd`UbhU[Yb Yf i bXYb"
- 8]Y'UhYa VYfUi VYbXY'5i gg]W\h'Ui Z'XYb'; c`Z'j cb'BYUdY` [Yb]Y»Yb"
- K UbXYfi b[Yb'Ybh`Ub['XYf'?ØghY'i bhYfbY\a Ybž
 VYgcbXYfg'Ui Z'XYa 'GYbh]Yfc'XY[`]'8Y]'fDZUX'XYf'; OhhYfŁ"

8]Y '? ca V]bUh]cb'Ui g'a U`Yf]gW\Yb'8 ÒfZYfb'i bX'a YX]hYffUbYf BUhi f'a UW\h'X]Y'< U`V]bgY``ni 'Y]bYa 'dYfZY_hYb'Cfh'ZØf YbhqdUbbhY'HU[Y"

* " 8]Y 6][\ `Ub X gž GW\ c hh`Ub X

8]Y 'gW\chh]gW\Yb'<][\`UbXg'g]bX'VY_Ubbh'ZØf']\fY'i bVYfØ\fhYBUhi f'i bX'VYfUi gW\YbXY'@UbXgW\UZhYb"'5V[YgY\Yb'j cb'XYfVYfØ\a hYb'@cW\BYgg'[]Vh'Yg'j]Y`Y'UbXYfY'j YfghYW_hY'GW\AhnYžX]Y'XUfUi Z'k UfhYbž'YbhXYW_h'ni 'k YfXYb"'<]Yf'_Ubbgh'Xi.

- : ^cfXUfh][Y'GYYb'i bX'a U'YghÀh]gWXY'6Yf[Y'Yf_i bXYb"
- K UbXYfb'i bX'X]Y'Gh]``Y'XYf'BUhi f'[Yb]Y»Yb"
- HfUX]h]cbY``Y`gW\chh]gW\Y`8 OfZYf`VYg]W\h][Yb`i bX`X]Y
 `c_U`Y`?i`hi f`Yf`YVYb"

9[U`žcV`Xi `Y]bY`YbhgdUbbYbXY`K UbXYfi b[`cXYf`Y]b Ui ZfY[YbXYg`Ci hXccf!5VYbhYi Yf`gi W\ghž`X]Y`<][\`UbXg`V]YhYb`ZØf YXYb`Yhk Ug"

Ni gUa a YbZUggi b[

9i fcdU']gh'j c``'j cb'j YfghYW_hYb'BUhi fk i bXYfb'i bX'Y]bn][Ufh][Yb@UbXgWXUZhYbž'X]Y'XUfUi Z'k UfhYbž'Yf_i bXYh'ni 'k YfXYb"'CV'Xi Xi fWX'X]Y': 'cfXY'Bcfk Y[Ybg'k UbXYfghž'X]Y'5ncfYb'Yf_i bXYgh cXYf'X]Y'UhYa VYfUi VYbXYb'6Yf[Y'XYf'<c\Yb'HUhfU'[Yb]Y»h' 'Yg[]Vh']a a Yf'bYi Y'5VYbhYi Yf'ni 'Yf'YVYb"'DUW_'X]Y'K UbXYfgWXi \YY]b'i bX'a UWX'X]WX'Ui Z'XYb'K Y['ni 'XY]bYa 'bÀWXghYbBUhi fYf'YVb]g']b'9i fcdU'

<]ghcf]gWX Y 'GWX ÀhnY. 'I B 9G7C!
K Y`hYfVYghÀhhYbž'X]Y 'a Ub'[YgY\Yb'\UVYb
a i gg</pre>

9i fcdU']gh'fY]W\'Ub'; YgW\]W\hY'i b\X'?i `hi fž'k Ug'g]W\']b'XYf
J]Y`nU\``XYf'I B9G7C!K Y`hYfVYgh\hhYb'k]XYfgd]Y[Y`h'''8]YgY
Gh\hhYb'g]b\X'b]W\h'bi f'VYXYi hYb\XY'hci f]gh]gW\Y'N]Y`Y\z'gcb\XYfb
Ui W\'k Yfhj c``Y'NY]hnYi [Yb'XYf'A YbgW\\Y]hg[YgW\]W\hY'i b\X'XYf
b\Uh\Øf`]W\Yb'J]Y`\ZU`h'''Jcb'VYY]b\Xfi \W_Yb\XYb'5f\W\]hY_hi fk i b\XYfb
V]g'\]b'ni 'i b\VYf\Ø\fhYb'B\Uhi f`\Ub\XgW\U\ZhYb'[]\Vh'Yg']b'9i fcdU'j]Y`
ni 'Yb\XY\W_Yb''

<]Yf'g]bX'Y]b][Y'XYf'UhYa VYfUi VYbXghYb'I B9G7C!
K Y`hYfVYghÀhhYbž'X]Y'XY]bYf'FY]gY'Xi fWX'9i fcdU'Y]b
i bj Yf[Ygg`]WXYg'9f`YVb]g'j Yf`Y]\Yb'k YfXYb.</pre>

- 8]Y 'DmfUa]XYb'j cb';]nY\ž'Ÿ[mdhYb.'CVk c\``cZh'U`g 5i » YbgY]hYf'VYhfUW\hYhž']gh'XYf'6`]W_'Ui Z'X]Y'I B9G7C! K Y`hYfVYghÀhhYb']bbYf\U`V'9i fcdUg'Ub[Yg]W\hg'XYf _i `hi fY``Yb'9]bZØggYž'X]Y'Ui Z'XYb'?cbh]bYbh'Y]bk]f_Ybž b]W\h'j c``ghÀbX]['c\bY'X]YgYb'Di b_h"
- 8 Yf? O`bYf8ca ž8 Yi hgWX`UbX. 8]YgYgA Y]ghYfk Yf_
 [ch]gWXYf5fWX]hY_hi f'VYY]bXfi W_h'b]WXh'bi f'Xi fWX 'gY]bY
 ; fO`» YžgcbXYfb'Ui WX 'Xi fWX 'gY]bY'UhYa VYfUi VYbXYb
 ; `UgZYbghYf'i bX'X]Y'\cWX'Ui ZfU[YbXYb'HØfa Yž'X]Y'X]Y
 G_m`]bY'j cb'? O`b'dfÀ[Yb"
- 8 Ug Du Ughj]YfhY j cb J YfgU] Ygž: fUb_fY]W. 8]YgYg dfÀW\h][Y GW\cgg]gh Y]b Gma Vc XYg ZfUbn Og]gW\Yb
 ? Ob][fY]W\g i b X Y]b \Yfj cffU[Yb XYg 6Y]gd]Y VUfc W_Yf

- 5fWX]hY_hifibX; UfhYb_ibgh"
- 8]Y'5`hghUXh'jcb'8iVfcjb]_ž'?fcUh]Yb.'9]b[Y\Ø``h'jcbAUiYfb'Uig'GhY]bž'V]YhYh'X]YgY'?ØghYbghUXhUhYaVYfUiVYbXY'5igV`]W_Y'ibX'VYY]bXfiW_YbXY;YgWX]WXhqqdifYb'Uig'XYa'A]hhY`U`hYf"
- 8]Y'5_fcdc`]g'j cb'5h\Ybž'; f]YW\Yb`UbX.'9]b'k Y]hYfYf UVgc`i hYf'?`Ugg]_Yfž'XYf'X]Y'K i fnY`b'XYf'k Ygh`]W\Yb N]j]`]gUh]cb'k]XYfgd]Y[Y`h'a]h'gY]bYb'VYY]bXfi W_YbXYb HYa dY`Ub`U[Yb"

 $\label{thm:continuous} I \ B \ 9G7C!@]ghYb \ 'nY][Yb'ibgz'k Y`WXYg'9fVY'X]Y'A YbgWX \Y]h \\ j \ Yfk \ U`hYh' \ 'ibX'a \ UWXYb'ibg'cZh'XYih`]WXz'k]Y'k]WXh]['Yg']ghz \\ X]YgY'GWXAhnY'ni 'gWXØhnYb'ibX'ni 'Yf\U`hYb'' <]Yf'g]bX'Y]b][Yk Y]hYfY'k Yfhj c``Y'GhAhhYbz'X]Y'UiZ'XY]bYf'FY]gY`]ghY'b]WXh'ZY\`Ybqc``hYb.$

@Ub X	GhÀ hhY	剝\f'XYf'9fbYbbi b[
±hU`]Y b	?c`cggYi a ž'Fca	%- , \$
GdUb]Yb	5`\Ua VfUž; fUbUXU	%- , (
JYfY]b][hYg	GhcbY\Yb[Y	%- , *
? Òb][fY]W\		
GW k YXYb	J]gVmž; ch`UbX	%)
² ghYffY]W\	GWX`cgg'ibX; ÀfhYb	% *
	j cb GWN ÓbV fi bbž	
	K]Yb	

 $\label{total conditions} $$ \{ \in]bk, Y]gk : $$ [Y \cdot GhAhhY b \cdot g]b X \cdot b]Wk, h' bi, f']b'] \{ Yb \cdot Yk, Y]^][Yb \cdot @Ab XY fb j cb' 6Y XY i, hi, b [ž'gcb XY fb' n]Y \ Yb' Ui, Wk, ']bhY fb Uh]cb U `Y' 6Y gi, Wk, Yf Ub ž' X]Y' a Y\ f' Ø VY f' X]Y' fY]Wk \ U `h][Y'; YgWk,]Wk, hY' i, b X' XY b _i `hi, fY``Yb'? cb hYl, h``Yfb Yb' a `OWk, hYb'' $$$

9]b '6Ygi W. 'X]YgYf 'GhÀhhYb 'V]YhYh'b]W.h'bi f'Y]bYb '6`]W_']b 'X]Y
J Yf[Ub[Yb\Y]hž 'gcbXYfb 'Ui W. 'X]Y 'A O[`]W._Y]hž 'X]Y
UhYa VYfUi VYbXYb '@UbXgW.UZhYb 'i bX 'UfW.]hY_hcb]gW.Yb
A Y]ghYfk Yf_Yž 'X]Y '9i fcdU'ni 'V]YhYb '\Uhž 'ni '[Yb]Y» Yb "'J]Y `Y
X]YgYf 'GhÀhhYb 'g]bX 'j cb 'Y]bYf 'i bj Yfk YW.gY `VUfYb 'GW. Ob\Y]h
i a [YVYbž 'X]Y 'cZh '@UbXgW.UZhYbž 'DUf_g 'cXYf' ? ØghYb 'i a ZUgghž
gcXUqq 'g]W. 'X]Y '6Yqi W.Yf Y]bY '5i qnY]h'j cb 'XYb 'ghÀXh]qW.Yb

B]Www.hini ij Yf[YggYbi]ghix]YiF c``YžiX]YiX]Yi`c_U`Ybi; Ya Y]bgWw.UZhYbVY]'XYfi9f\U`hi b[ix]YgYfiGhÀhhYbigd]Y`Yb"'J]Y`YiGhÀxhYiV]YhYb: Ø\fi b[Ybii bXiJ YfUbghU`hi b[YbiUbžii a ixUgi_i `hi fY``Y6Yk i gghgY]bini izÒfXYfbii bXi[`Y]WwnY]h][ix]YiHfUX]h]cbYbi]\fYfFY[]cbini iVYk U\fYb"8 Ugi9f`YVYbij cbi: YghYicXYfi_i `hi fY``YbJYfUbghU`hi b[Ybi]biXYfiBÀ\YiY]bYfil B9G7C!GhÀhhYi_UbbiXUgJYfghÀbXb]giZØfiX]Yi`c_U`Yi?i `hi fij Yfh]YZYbii bXiYgiX]fYfa Ò[`]WwYbžih]YZYfi]biX]Yi; YgWw]WwhYiY]bni hUi WwYb"

 $9]bY'FY]gY'ni'X]YgYb'']ghcf]gWXYb'GWX AhnYb']gh'Y]bY'FY]gY'ni'XYbK ifnY'b'i bgYfYf'N]j]']gUh]cb'''8]Y'GhAhhYb'YfnA\'Yb'; YgWX]WXhYbUi g'j Yf[Ub[YbYb'9dcWXYb'i bX''UXYb'i bg'Y]bž'XUfØVYfbUWXni XYb_Ybž'k]Y'k]f'XUg'_i `hi fY``Y'9fVY'XYf'A YbgWX\Y]h'ZØfni _ØbZh][Y'; YbYfUh]cbYb'VYkU\fYb'_\ObbYb'''D`UbY'XY]bY'FY]gYgcf[ZA`h]['i bX'b]a a 'X]f'X]Y'NY]hž'XUg'; Yk]WXh'i bX'X]Y; YgWX]WXhYž'X]Y'YXY'X]YgYf'GhAhhYb'hfA[hž'k]f_`]WX'ni 'gWXAhnYb''$

5_h]j Y 5 V Y b h Y i Y f. 'C i h X c c f! 5_h]j]h À h Y b 'ZØf 'Y X Y g '6 i X [Y h

9i fcdU']gh'Y]b'k U\fYg'9`XcfUXc'ZØf'Ci hXccf!@]YV\UVYf"'CV'Xi 'Y]b 5XfYbU`]b'h b_]Y'V]ghž'XYf'Ui Z'XYf'Gi WXY'bUWX'Ui ZfY[YbXYb 5VYbhYi Yfb']ghž'cXYf'Y]bZUWX'bi f'X]Y'GWXÒb\Y]h'XYf'BUhi f [Yb]Y»Yb'a ÒWXhYgh' '\]Yf'[]Vh'Yg'ZØf''YXYb'XUg'dUggYbXY 9f`YVb]g"'Jcb'XYb'\cWXU'd]bYb'@UbXgWXUZhYb'XYf'5`dYb'V]g'ni XYb'i bVYfØ\fhYb'GhfÀbXYb'XYf'?ØghYbž'9i fcdU'V]YhYh'Y]bY J]Y`nU\``j cb'5_h]j]hÀhYbž'X]Y'ni 'XY]bYa '6i X[Yh'dUggYb"

<]Yf'g]bX'Y]b][Y'gdUbbYbXY'Ci hXccf!5_h]j]hÀhYbž'X]Y'Xi ']b
j YfgWX]YXYbYb'FY[]cbYb'9i fcdUg'Ui gdfcV]YfYb'_Ubbgh.</pre>

• K UbXYfb']b'XYb'5`dYb.'8]Y'5`dYb'V]YhYb'nU\`fY]W\Y
K UbXYfk Y[Yž'j]Y`Y'XUj cb'g]bX'_cghYb`cg'ni [Àb[`]W\"
Fci hYb'k]Y'XYf'9) ž'XYf'j cb'XYb'XYi hgW\Yb'5`dYb'V]g
bUW\"\#U`]Yb'ZØ\fhž'g]bX'gck c\``ZØf'5bZ\hb[Yf'U`g'Ui W\'ZØf
YfZU\fYbY'K UbXYfYf'[YY][bYh"

- FUXZU\fYb']b'XYb'B]YXYf`UbXYb.'8]Y'B]YXYf`UbXY'g]bX VY_Ubbh'ZØf']\fY'Z'UW\Yb'@UbXgW\UZhYb'i bX'[i h Ui g[YVUi hYb'FUXk Y[Y"'A]YhY'Y]b': U\ffUX'i bX'Yf_i bXY X]Y'a U'Yf]qW\Yb'8 OfZYf'i bX'X]Y'UhYa VYfUi VYbXY'BUhi f"
- ? UmU_ZU\ fYb ']b 'B cfk Y[Yb. '8]Y': 'cfXY'B cfk Y[Ybg'g]bX]XYU`'ZØf'? U'U_hci fYb"'J]Y`Y'5bV]YhYf'V]YhYb'[YZØ\fhY Hci fYb'cXYf'X]Y'A Ò[`]W_Y]hž'gY`Vgh'ni 'dUXXY`b"'8]YgY 5VYbhYi Yf'g]bX'i bhYfgW\]YX`]W\ 'VYdfY]gVUf'i bX'V]YhYb'Y]b i bj Yf[Ygg`]W\Yg'9f`YVb]g']b'XYf'BUhi f"
- G_]ZU\fYb']b'XYb'? UfdUhYb. K Ybb'Xi']a K]bhYf'bUWX 5VYbhYi Yf'gi W ghž'g]bX'X]Y'? UfdUhYb']b'Fi a Àb]Yb'Y]bY dfY]g[Øbgh][Y'5`hYfbUh]j Y'ni 'XYb'5`dYb"'G_]!FYgcfhg'k]Y' Dc]UbU'6fU cj 'q]bX'Y]b'VY']YVhYg'N]Y''ZØf'K]bhYfgdcfh'Yf"

8]Y'5i gk U\`'Ub'Ci hXccf!5_h]j]hÀhYb']b'9i fcdU']gh']a a Ybg''<]Yfg]bX'Y]b][Y'[YVfÀi W\`]W\Y'5VYbhYi Yfž'X]Y'Xi ''Y'bUW\'6i X[YhYfYVYb'_Ubbgh

5_h]j]hÀh	FY[]cb	DfY]gVYfY]WX
K UbXYfb	5`dYbž ⁻ ZfUbnÒg]gW\Y	?cghYb`cg
	DmfYbÀYbž	
	GWX chh`Ub X	
G_]ZU\fYb	5`dYbž'?UfdUhYbž	ļ
	G_UbX]bUj]Yb	
FUXZU\fYb	B]YXYf`UbXYž	ļ
	8ÀbYa Uf_ž	
	8 Ying Wiùb X	
? U ′U_ZU \ f Y b	Bcfk Y[Ybž	ļ
	GW\k YXYbž'?fcUh]Yb	
K]bXgifZYb	GdUb]Ybž'Dcfhi [U`ž	!
	; f]YWXYb`UbX	
DUfU[`]X]b[GW\k Y]nž ⁻² ghYffY]W\ž	ļ ļ
	: fUb_fY]W\	

: Øf X]Y 5 VY bhY i fY fž X]Y b U W Y]b Y a 5 X fY b U `]b_]W_ 'gi W Y b ž []V h Y g `U i W `U i ZfY [Y b X Y 5 _h]j]hÀhY b `k]Y .

• 6i b[YY! > i a d]b[. Ni a '6Y]gd]Y``]b 'XYf GWk Y]nžk c 'Xi

- j cb'XYf'J YfnUgWU!GhUi a Ui Yf'gdf]b[Yb'_Ubbgh' 'X]Yg']gh Y]b'Y]ba U`][Yg'9f`YVb]g"
- DUfU[`]X]b[.'KibXYfgW\ObY'5igg]W\hYb'ibX'Y]b'; YZØ\`jcb':fY]\Y]h'YfkUfhYb'X]W\'VY]a'DUfU[`]X]b[']b'XYb'5`dYbcXYf'Ua'AcbhgYffUh']b'GdUb]Yb"
- GWX bcfWX Y`b i bX 'HUi WX Yb. '9f_i bXYb 'G]Y 'X]Y ZUgn]b]YfYbXY 'I bhYfk UggYfk Y`h']a 'A]hhY`a YYfž'k c 'Xi j]Y`Y 'HUi WX gWXi `Yb i bX '5bV]YhYf'Z]bXYb '_Ubbgh"

: Øf:: Ua]`]Yb'a]h'?]bXYfb'[]Vh'Yg']b'j]Y`Yb'Yi fcdÀ]gWXYb'@AbXYfb
Ui WX 'YfgWXk]b[`]WXY'Ci hXccf!5_h]j]hÀhYb"'GhÀXh]gWXY'DUf_gž'k c
?]bXYf'g]WXYf'gd]Y`Yb'_ObbYbž'gck]Y'[YZØ\fhY
: Ua]`]Ybk UbXYfi b[Ybž'X]Y'_]bXYfZfYi bX`]WXY'Fci hYb'V]YhYbž'g]bX
k Y]h'j YfVfY]hYh"'FY]gYXYgh]bUh]cbYb'k]Y':]bb`UbX'V]YhYb']a
Gca a Yf'nU\`fY]WXY'5_h]j]hÀhYb'k]Y'? Ubi ZU\fYb'i bX'NY`hYbž'X]Y
gck c\`i bhYf\U`hqUa 'U`q'Ui WX''Y\ffY]WX'q]bX"

GWX`]Y»`]WX`]gh`Yg`k]WXh][`ni`VYUWXhYbž`XUgg`j]Y`Y`X]YgYf
5_h]j]hÀhYb`ibUV\Àb[][`jcb`XY]bYa`:]hbYgg`YjY`acX]Z]n]Yfh
kYfXYb`_ÒbbYb"'9[U`ž`cV`Xi`5bZÀb[Yf`cXYf`DfcZ]`V]ghž`Yg`[]Vh
]aaYf`bYiY'<YfUigZcfXYfib[Yb`ni`aY]ghYfb"'JYf[]gg`b]WXhž`]a
JcfUig`ni`d`UbYb`ibX`X]Y`f]WXh][Y`5igfØghib[`ni`Vf]b[Ybž`Y[U`ž
cV`Xi`Y]bY`[YZØ\fhY`Hcif`aUWXgh`cXYf`U``Y]bY`ibhYfkY[g`V]gh"

A]h'U```XYb'A $O[`]WX_Y]hYbž'X]Y'X]f'9i fcdU'V]YhYhž'k]fX'XY]b'I f`Ui V ni 'Y]bYa 'i bj Yf[Ygg`]WXYb'5VYbhYi Yf' '[Ubn'[`Y]WXž'k Y`WXYg 6i X[Yh'X]f'ni f'J YfZØ[i b['ghY\h"$

?i`hi f'i bX'HfUX]h]cb.': YghY'i bX
J YfUbghU`hi b[Ybž'X]Y'Xi 'b]WX h'j YfdUggYb
qc``hYqh

9i fcdU']gh'Y]b'?cbh]bYbhž'XYf']b''YXYf'9W_Y'a]h'Y]bYf'fY]WXYb'i bX j]Y`ZÀ`h][Yb'?i `hi f'YfZØ``h']gh"'8]Y'nU\`fY]WXYb': YghY'i bX J YfUbghU`hi b[Ybž'X]Y'XUg'[UbnY'JJ\f'ØVYf'ghUhhZ]bXYbž'gd]Y[Y`b X]Y'HfUX]h]cbYb'i bX'XYb'6fUi WX'XYf'j YfgWX]YXYbYb'FY[]cbYb k]XYf"'<]Yf'g]bX'Y]b][Y'i bj Yf[Ygg`]WXY': YghYž'X]Y'Xi 'Ui Z'XY]bY

$%"C_hcVYfZYgh']b'AØbWXYbž'8YihgWX`UbX$

8 UgʻC_hcVYfZYghʻ]ghʻXUgʻ[fÒ» hYʻJc`_gZYghʻXYfʻK Yʻhʻi bXʻn]Y\h YXYgʻJ\fʻA]``]cbYbʻj cbʻ6Ygi W\YfbʻUb"'9gʻVY[]bbhʻbcfa UʻYfk Y]gY]a ʻGYdhYa VYfʻi bXʻXUi YfhʻV]gʻ]bʻXYbʻYfghYbʻGcbbhU[ʻ]a ʻC_hcVYf'' <]Yfʻ_UbbghʻXi ʻVUmYf]gW\Yʻ6]Yf_i ʻhi fʻX]fY_hʻa]hYf`YVYbžʻXUni ʻ[]Vh YgʻhfUX]h]cbY``YʻA i g]_žʻHÀbnYʻi bXʻ_Ògh`]W\YʻGdY]gYbʻk]Yʻ6fYnY`b i bX'<YbX`"

&" 7UfbYj U`Y X] J YbYn]Už =hU`]Yb

8 Yf? UfbYj U`j cb'J YbYX][']gh'VYfØ\a h'ZØf'gY]bY
gdY_hU_i `ÀfYb'A Ug_Yb'i bX'dfÀW\h][Yb'?cghØa Y"'8]Y
: Y]Yf`]W_Y]hYb'VY[]bbYb']a '\Ubi Uf'i bX'W' `a]b]YfYb'Ua
: UgW\]b[gX]YbghU["'K À\fYbX'X]YgYf'NY]h'j Yfk UbXY`h'g]W\'X]Y
GhUXh']b'Y]b'`YVYbX][Yg'GW\Ui gd]Y`'Ui g'A i g]_ž'HUbn'i bX'Y]bYf
J]Y`nU\`j cb'J YfUbghU`hi b[Ybž'X]Y'X]W\']b'X]Y'[Y\Y]a b]gj c``Y
5 ha cgd\ÀfY'J YbYX][g'Y]bhUi W\Yb'`UggYb"

' "@U'Hca Uh]bU']b'6i í c`ž'GdUb]Yb

8]Y'@U'Hca Uh]bU'Z]bXYh'Ua '`YhnhYb'A]hhk cW\']a '5i [igh']b'6i íc` ghUhh"8]YgYg'Y]bn][Ufh][Y': Ygh]j U`']gh'Y]b'f]Yg][Yg Hca UhYbk YfZYbž'VY]'XYa 'HUi gYbXY'j cb'A YbgW\Yb']b'Y]bYf _fUW\YbXYb'Hca UhYbgW\`UW\h'ni gUa a Yb_ca a Yb"'9g']gh'Y]b i bj Yf[Ygg`]W\Yg'9f`YVb]g'j c``Yf'GdU» ž'@UW\Yb'i bX'j YffØW_hYf A ca YbhY"

(": ÆhY XY``U`A i g]ei Yž: fUb_fY]W

8]Y: ÆhY:XY:`U:A i g]ei Yž:X]Y:Ua :&%":>i b]:[YZY]Yfh:k]fXž:]gh:Y]b::Ygh]j U:`ni :9\fYb:XYf:A i g]_ž:XUg:]b:[Ubn::fUb_fY]WX:gY]bYb
I fgdfi b[:\Uh":GhfU»Ybž:D:ÀhnY:i bX:DUf_g:j Yfk UbXY:b:g]WX:]b
6Ø\bYbž:Ui Z:XYbYb:A i g]_Yf:Ui g:j YfgWX]YXYbYb:; YbfYg:Ui ZhfYhYb"
9g:]gh:Y]b:[fc»Ufh][Yf:K Y[ž:`c_U:Y:HU:YbhY:ni :YbhXYW_Yb:i bX:X]Y
@Y]XYbgWXUZh:ZØf:X]Y:A i g]_:ni :ZY]Yfb"

) " 9X]bVi f[\ : Ygh]j U` : f]b[YžGWXchh`UbX

* " K Y]\bUW\hga Af_hY]b 9i fcdU

 $8]Y K Y] b UW hga Af_hY g] b X Y] b Y k i b XY f V U f Y A O[`]W _Y] h z X] Y Z Y gh`]W Y Gh] a a i b [`]b 9 i f c d U n i Y f`Y V Y b " 9] b] [Y XY f V Y _U b b h Y gh Y b 'A Af_h Y Z] b X Y b '] b 'G h A X h Y b 'k]Y 'B Ø f b V Y f [z´? O`b 'i b X K]Y b 'gh U h h " <]Y f _U b b g h X i '\ U b X [Y Z Y f h] [h Y '; Y g W Y b _Y z´ _Og h`] W Y @ Y W _Y f Y] Y b 'k]Y '; `Ø \ k Y] b 'i b X @ Y V _i W Y b 'd f c V] Y f Y b 'i b X X] Y k i b X Y f V U f Y 'Z Y g h`] W Y '5 ha c g d \ A f Y '[Y b] Y » Y b "$

: Ygh]j U`gØVYfg]W\ h

: Ygh	Cfh	AcbUh
C_hcVYfZYgh	A ØbWX Y b ž	GYdhYa VYf
	8 Ying Wiùb X	C_hcVYf
7UfbYj U`Y'X]	JYbYX][ž˙‡hU`]Yb	≯Jbi Uf∵: YVfi Uf
JYbYn]U		
@U'Hca Uh]bU	6iĺc`ž'GdUb]Yb	5i[igh
: ÆhY 'XY ``U 'A i g]ei Y	: fUb_fY]W\	id k]
9X]bVif[\`:Ygh]jU`	9X]bVi f[\ž	5i[igh
: f]b[Y	GWX c hh`Ub X	
K Y]\bUW\hga Àf_hY	JYfgWX]YXYbY`GhÀXhY	Bcj Ya VYf
		8YnYa VYf

8 YhU]`g

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