

Hci f]ga i gʻ]b F\Y]b`UbX!DZU`n. FY_cfXnU\`Yb i bX bYi Y < YfUi gZcfXYfi b[Yb°

F\Y]b`UbX!DZU`n'j YfnY]W\bYh'&\$&('FY_cfXY']a 'Hci f]ga i g" Hfchn'<YfUi gZcfXYfi b[Yb'g]bX'=bj Ygh]h]cbYb']b'Ei U`]hÀh'i bX BUW\\U`h][_Y]h'bÒh]["



A U]b nž 8 Yi hgWX `Ub X '! ' \Rightarrow 'F \Y]b `Ub X! DZU`n 'V`Ø\h'XYf'Hci f]ga i g° 8]Y 'U_hi Y``Yb 'NU\`Yb 'nY][Yb 'Y]b Yb 'YfZfYi `]WX Yb '5 bgh]Y['XYf ; ÀghY! 'i b X ', VYfb UWX hi b[gnU\`Yb ž'k Ug 'XUg ' \Rightarrow \\frac{1}{2} \frac{1}{2} \frac{1}{2

K]fhgWk UZhga]b]ghYf]b'8 Ub]Y`U'GWka]hh'ghY``hY'VY]'XYf
DfÀgYbhUh]cb'XYg'GdUf_UggYb!Hcif]gaigVUfcaYhYfg'&\$&)']b
A U]bn'X]Y'VYaYf_YbgkYfhY'K]XYfghUbXgZÀ\][_Y]h'XYf'6fUbWkY']b
XYb'JcfXYf[fibX"'G]Y'VYhcbh'YXcWk'XYb'Xf]b[YbXYb'6YXUfZ'Ub

#bj Ygh]h]cbYbžia'X]Y'EiU`]hÀhž'BUWk\U`h][_Y]h'ibX'J]Y`ZU`h'XYf
5b[YVchY'kY]hYfniYbhk]W_Y`b"'5b'X]YgYf'GhY``Y'ibhYfghØhnYb'X]Y
f\Y]b`UbX!dZÀ`n]gWkYb'GdUf_UggYb'[Yn]Y`h'X]Y'6Yhf]YVY'VY]a
5igVUi']\fYf'hcif]gh]gWkYb'#bZfUghfi_hif"

FY[]cbU`Y`I bhYfgWX]YXY`i bX < YfUi gZcfXYfi b[Yb</pre>

9]b 6`]W_Ui ZX]Y j YfgWX]YXYbYb Hci f]ga i gfY[]cbYb nY]WXbYhY]b
[Ya]gWXhYg 6] X" K À\fYbX XUg 5\fhU`a]hY]bYa D`i g j cb %(
DfcnYbh'Ub; ÀghYb i bX & DfcnYbh']a 6YfY]WX XYf
, VYfbUWXhi b[Yb Ui Zhfi a d ZYb _Ubbža ØggYb j]Y Y FY[]cbYb
k Y]hYf\]b i a X]Y 5i g`Ughi b[_Aa d ZYb "Hfchn'ghY][YbXYf
Ni Zf]YXYb\Y]hgk YfhY F\Y]b`UbX!DZU`n``UbXYh`VY]`XYf
; ÀghYni Zf]YXYb\Y]h'Ui Z'D`Uhn'(]b 8 Yi hgWX`UbX VY]Vh'X]Y
; YgUa hUi g`Ughi b[j]Y`Yf'<Ài gYf'b]YXf]["8]Yg`VYhf]ZZh
]bgVYgcbXYfY X]Y FY[]cbYb XYg'A cgY`!GUUfž'<i bgfØW_i bX
@U\bhU`žk c'X]Y`NU\`Yb'hY]`g'i bhYf'XYbYb'j cb'&\$%-``]Y[Ybžk]Y
Ui WX 'GhUh]gh]_ F@D`VYf]WXhYh"

Gc 'j YfnY]WX bYhY 'F\Y]b\YggYb 'a]h') ž) 'DfcnYbh'Ni k UWX g'X]Y\\OWX ghYb 'NU\`Ybž'[YZc`[h'j ca 'BU\Y`UbX'i bX'XYf'9]ZY`"'8YbbcWXV`Y]V'X]Y'[YgUa hY'f\Y]b`UbX!dZÀ`n]gWXY'Hci f]ga i gV]`Ubn'&\$&(kY]hYf\]b'(ž 'DfcnYbh'i bhYf'XYb'8]a Ybg]cbYb'j cb'&\$%-ž'k UgnY][hž'XUgg'XYf'K Y['ni fØW_'ni f'Bcfa U`]hÀh'bcWX'`Ub[']gh"

8]Y'Fc``Y'XYf'GdUf_UggYb'i bX 8][]hU`]g]Yfi b[

H\ca Ug`<]fgW\z`Df\ag]XYbh`XYg`GdUf_UggYbj YfVUbXgz`\cV`X]Y
k]W\h][Y`Fc``Y`XYf`GdUf_UggYb`U`g`:]bUbn]Yfi b[gdUfhbYf`ZØf`XYb
A]hhY`ghUbX`]a `Hci f]ga i g`\Yfj cf"`A]h`<]`ZY`j cb`\bj Ygh]h]cbYb`]b
\bcj Uh]cbz'8][]hU`]q]Yfi b[i bX`bUW\\U`h][Y`?cbnYdhY`_ObbYb`X]Y

8]YgY'9bhk]W_`i b[Yb'g]bX'VYgcbXYfg'k]W\h][ž'XU'hfchn'XYg K UW\ghi a g']b'VYgh]a a hYb'6YfY]W\Yb'X]Y'6fUbW\Y'j cf <YfUi gZcfXYfi b[Yb'ghY\h"8]Y'HUhgUW\Yž'XUgg'X]Y'; YgUa hUbnU\` XYf'6Yhf]YVY']b'F\Y]b`UbX!DZU`n'i a '\$ž+'DfcnYbh'[Ygi b_Yb']ghž k À\fYbX'X]Y'6YhhYb_UdUn]hÀhYb'[Ygh]Y[Yb'g]bXž'j YfXYi h']W\h'X]Y Bchk YbX][_Y]hž']b'X]Y'6Yhf]YVY'i bX'XYfYb'5b[YVchY'ni |bj Ygh]YfYb"'

: Øf`X]Y`Ni _i bZh`XYg`f\Y]b`UbX!dZÀ`n]gWXYb`Hci f]ga i g`V`Y]Vh`U`gc ZYghni \U`hYbž`XUgg`hfchn`XYf`YfZfYi `]WXYb`GhUh]gh]_Yb`]b`X]YgYa ≯J\fž`X]Y`6fUbWXY`k UWXgUa `V`Y]VYb`a i gg"`8]Y`♣j Ygh]h]cbYb`]b E i U`]hÀh`i bX`bYi Y`5b[YVchY`g]bX`YbhgWXY]XYbX`XUZØfž`XYb dcg]h]j Yb`HfYbX`bUWX\U`h][`Zcfhni ZØ\fYb"`Gc`_ÒbbhY`F\Y]b`UbX! DZU`n`b]WXh`bi f`XYb`Xf]hh\ÒWXghYb`K Yfh`Ub`, VYfbUWXhi b[Yb YffY]WXYbž`gcbXYfb`Ui WX`Ui Z`8Ui Yf`U`g`VY`]YVhY`FY]gYfY[]cb VYghY\Ybž`k Ug`X]Y`Hci f]ga i gbYhnk Yf_`F @D`ni `cdh]a]gh]gWXYb Dfc[bcgYb`UbfY[h"

8YhU]`g	
Cfh	AU]bnž'8YihgWX`UbX
Ei Y``Yb	• k k k "UbhYbbY!_\"XY
	k k k "ghUh]gh]_"f`d"XY
	• f`d"hci f]ga i gbYhnk Yf_"]bZc

6Ygi WXYb G]Y i bg Ui Z i bgYfY!\chY`g"XY