

6UX BUi \Y]a . '9]b_Ui ZYb c\bY '? YhhYb ' I b]_UhY]a 'HfYbX °

6UX BUi \Y]a . '9]bY ``YVYbX][Y '9]b_Ui ZgghfU» Y 'a]h': c_i g'Ui Z]b\UVYf[YZØ\fhY'; YgW\ÀZhY'! '\DX]j]Xi U`]hÀh'ghUhh'? YhhYb"



6UX BUi \Y]a ž8Yi hgW `UbX'! = 6UX BUi \Y]a 'gdf]Y» Yb 'X]Y]b\UVYf[YZØ\fhYb'; YgW\ÀZhY'k]Y'X]Y'6`i a Yb']a ': fØ\`]b["'8]Y VY`YVhY'9]b_Ui ZgghfU» YžX]Y'g]W 'Ybh`Ub['XYf'GhfYgYa UbbghfU» Yn]Y\hž'V]YhYh`Y]bY'Vi bhY'A]gW\i b['Ui g']bX]j]Xi Y``Yb'@\XYbž'X]Y XYb'7\Ufa Y'XYf'GhUXh'dfÀ[Yb"'K À\fYbX'UbXYfgk c'AcXY_YhhYb cab]dfÀgYbh'g]bXž\Uh'6UX'BUi\Y]a 'VYki ggh'Ui Z'Y]bY'UbXYfY GhfUhY[]Y'[YgYhnh"'K]Y'X]Y': fUb_Zi fhYf'5``[YaY]bY'NY]hi b[VYf]W\hYhž'Xca]b]YfYb'fi bX', \$']b\UVYf[YZØ\fhY 9]bnY`\UbXY`g[YgW\ÀZhYž'kÀ\fYbX'bi f'Y]bY'<UbXj c```?YhhYb'k]Y DUfZØaYf]Yb'i bX'8fc[Yf]Yb']b'XYf' = bYbghUXh'dfÀgYbh']gh"

9]b '[i hYg' < \dot{A} b XW\Yb 'ZØf' XUg' 6 Ygc b XYfY'\UVYb'X]Y ; YgW\ \dot{A} Zhg]b\UVYf"'Gc'Yf]bbYfh'g]W\'X]Y' \Rightarrow \UVYf]b'XYg'@UXYbg

GhY``U`Ub`Y]bY`I bhYfgWXf]ZhYbU_h]cbž`X]Y`j cf`*J\fYb`[Y[Yb`X]Y
5bg]YX`i b[`[fÒ» YfYf`?YhhYb`ghUhhZUbX"'8]Y`?i bXgWXUZh`gWXÀhnh
X]YgY`*\b\X]j]Xi U`]hÀh`i bX`X]Y`dYfgÒb`]WXY`6YfUhi b[ž`X]Y`a Ub`]b
XYb`; YgWXÀZhYb`k]Y`A m`6fUbXg`cXYf`VY]a `6ci h]ei Y!@UVY``GhY``U
Yf\À`h"`DfY]gY`_ÒbbYb`XUVY]`Xi fWXUi g`]b`X]Y`XfY]ghY``][Yb
6YfY]WXY`UVhUi WXYbž`kÀ\fYbX`K]bhYfk UfY`gc[Uf`V]g`ni `*\$\$`9i fc
_cghYb`_Ubb"`?`Ufž`XUgg`VY]`gc`WX`Y]bYa `5b[YVch`Ui WX`X]Y
?i bXYb`j cb`Ui »Yf\U`Vž`Yhk U`Ui g`: fUb_Zi fhž`K]YgVUXYb`cXYf`6UX
<ca Vi f[ž`[YfbY`j cfVY]gWXUi Yb"

@YVYbX][Yf'9]bnY`\UbXY`hfchn < YfUi gZcfXYfi b[Yb</pre>

8]Y'Jcfg]hnYbXY'XYg'; YkYfVYjYfY]bg'9f`YVb]g'6UX'BUi\Y]až
BUhUgWkU'GWka]Xhž'\YVh'\Yfjcfžk]Y'k]Wkh]['X]Y
I bjYfkYWkgY`VUf_Y]h'XYf'; YgWkÀZhY']gh"'8YbbcWk'g]Y\h'g]Y'UiWkDchYbn]U`'ZØf'[fÒ»YfY'AUf_Yb']b'XYf'GhUXh"'8]Yg'ibhYfghfY]WkhUiWk'<UbXY`gjYfVUbXgdfÀg]XYbh'&WkYb'Fih\gž'XYf'XUgJcf\UbXYbgY]b'jcb'Ib]_UhYb'U`g'kYgYbh`]WkYb'JcfhY]`'g]Y\h"

\$hYfYggUbhYfkY]gY'nY][h'Y]bY'NiZU``giaZfU[Yž'XUgg'Y]b][Y?ibXYb'kYb][Yf'XUg';YZØ\``XYf'9IWig]j]hÀh'gWkÀhnYbž'gcbXYfbhUhgÀWk`]Wk'XYb'KibgWk`bUWk'?YhhYb'k]Y'<//>

8]Y'GhUXh'6UX'BUi\Y]a '\Uh'YXcW\'_cb_fYhY'D'ÀbYž'i a
VYghY\YbXY'@YYfghÀbXY'ni 'a]b]a]YfYb'i bX'; fØbXYfb'i bhYf'X]Y
5fa Y'ni '[fY]ZYb"'8Ug'?cbnYdh' 5i Z[Ya UW\h 'n]Y`h'XUfUi Z'UVŽ
_fYUh]j Y'=XYYb'ni 'ZÒfXYfb'i bX'XYb'`c_U`Yb'9]bnY`\UbXY``ni
i bhYfghØhnYb"'Dcd!i d!GhcfYgž']b'XYbYb'l bhYfbY\a Yf]bbYb
]bX]j]Xi Y``Y'DfcXi _hY'UbV]YhYb'' j cb'GW\i \Yb'V]g'<ØhYb'' gcf[Yb
XUZØfž'XUgg'Zf]gW\Yg'@YVYb']b'X]Y'9]b_Ui ZgghfU»Y'_ca a h"

J]Y`ZU`h']a '9]bnY`\ UbXY`

8]Y'GhUXh'\Uh'Y]bY'J]Y`nU\``jcb'; YgW\ÀZhYbž'X]Y'g]W\'XifW\']\fY J]Y`ZU`h'i bX'±bX]j]Xi U`]hÀh'Ui gnY]W\bYb"'Ni 'XYb'bUa\UZhYb ; YgW\ÀZhYb'[Y\ÒfYb'i bhYf'UbXYfYa.

- 5`X]'GØX'f| Yk YfVY[YV]Yh'<i VYfh!JYf[O`gh!GhfU»YŁ
- 6]cA Uf_h'6UX'BUi \Y]a
- 6i W\\UbX`i b['FØ\g
- AcXYJc[h
- HWX]VC
- I bj YfdUW_h`UXYb b]l !Xfi a !fi a
- K Y]b\UbXY`: YfhgW

, VYf'X]Y'V`c»Y'9]b_Ui ZgYfZU\fi b['\]bUi g'k]fX']b'6UX'BUi \Y]a X]Y'dYfgÒb`]W\Y'BchY'\cW\[YgW\Ahnh"'6Y]'XYb']b\UVYf[YZØ\fhYb@AXYb']b'XYf'GhfYgYa UbbghfU»Y'[Y`]b[h'Ygž'Y]bY'5ha cgd\AfY'ni gW\UZZYbž'X]Y'XUg'hfUX]h]cbY``Y'9]b_Ui ZYb'ZÒfXYfh'i bX'X]Y'?i bXYbXUni 'Y]b`AXhž'BYi Yg'ni 'YbhXYW_Yb"

8 Y hU]`g	
Cfh	6UX BUi \Y]a ž8Yi hgWX `UbX
EiY``Yb	• k k k "ZUn"bYh
	• k k k "VUX!bUi \Y]a "XY

6 Y gi W Y b 'G] Y 'i b g 'U i Z 'b U [! \ Y g g Y b "X Y