

BYi Yf Dfc ZYggcf Ub XYf I b]. 8f" ? Ua d\Ui gYb Vf]b[h Zf]gWXYb K]bX°

9fZU\fYb'G]Y'ØVYf'X]Y'U_hi Y``Yb'9bhk]W`i b[Yb'Ub'XYf'I b] 9f`Ub[Yb!BØfbVYf[\check{z}]b_`i g]j Y'bYi Yf'DfcZYggcfYb'i bX ? Uff]YfYZÒfXYfi b['ZØf'K]ggYbgW\UZh`Yf"

9f`Ub[Ybž'8Yi hgW\`UbX'!'<Yi hYž'Ua') "A Àfn'&\$&) ž'ZfYi h'g]W\
X]Y': f]YXf]W\!5`YI UbXYf!I b]j Yfg]hÀh'9f`Ub[Yb!BØfbVYf['fl 5I Ł
ØVYf'X]Y'6Yfi Zi b['j cb'DfcZYggcf'8f"'H\ca Ug'? Ua d\Ui gYb"'9f
ØVYfb]a a h'XYb'@Y\fghi\`'ZØf'8Yi hgW\Y'i bX'9b[`]gW\Y
GdfUW\k]ggYbgW\UZh'Ub'XYf': 5I 'i bX'Vf]b[h'Y]bY'J]Y`nU\`'j cb
]bhYfbUh]cbU`Yb'9fZU\fi b['a]h"? Ua d\Ui gYb'\Uh']b'XYb
j Yf[Ub[YbYb'\$J\fYb'Ub'j YfgW\]YXYbYb'I b]j Yfg]hÀhYb'[YZcfgW\h
i bX'[Y`Y\fhž'i bhYf'UbXYfYa']b'; fc»Vf]hUbb]Yb'i bX'XYb'I G5"
GY]bY'9I dYfh]gY'k]fX'X]Y'gdfUW\k]ggYbgW\UZh`]W\Y': cfgW\i b['i bX'\XYf' b'] b']gh'

DfcZYggcf?Uad\UigYb'ghiX]YfhY'@]b[i]gh]_'ibX'kifXY'ZØf'gY]bY\YfUigfU[YbXYb'@Y]ghib[Yb']b'XYf':cfgW\ib['aY\fZUW\Uig[YnY]W\bYh''9f'\Uh'g]W\'UiZ'jYfgW\]YXYbY':cfgW\ib[gZY`XYfgdYn]U`]g]Yfhž'XUfibhYf'X]Y'GmbhUl'ibX'X]Y'D\cbc`c[]Y'ibX'XYfYbNigUaaYb\Ab[Y'a]h'gcn]U`Yb':U_hcfYb']b'XYfGdfUW\jYfkYbXib["'GY]bY'6YfiZb['Ub'X]Y':5l']gh'Y]b'kY]hYfYfGW\f]hh'nif'GhAf_ib['XYg'K]ggYbgW\UZhghUbXcfhg'8YihgW\`UbXibX'')b'X'f'

6YXYihib[XYfBUWkiWkgZOfXYfib[

8]Y '9bhgW\Y]Xi b['XYf': 5I \check{z} Y]bYb'K]ggYbgW\UZh\Yf'a]h'gc\W\Yf Ei U\]Z]_Uh]cb'ni 'VYfi ZYb \check{z} 'ghY\h']a '9]b_\Ub['a]h'XYb

6YghfYVi b[Yb'XYf'6i bXYgfY[]Yfi b['ni f': ÒfXYfi b[k]ggYbgWkUZh`]WkYf'?Uff]YfYb" @Ui h' \(\pi\)Zcfa Uh]cbYb'XYg
6i bXYga]b]ghYf]i a g'ZØf'6]`Xi b['i bX': cfgWki b['fbA 6: E'g]bX'
1 b[Y'K]ggYbgWkUZh`Yf]bbYb'i bX'K]ggYbgWkUZh`Yf'YbhgWkY]XYbX
ZØf'X]Y'KY]hYfYbhk]W_`i b['XYg'K]ggYbgWkUZhgghUbXcfhYg
8 Yi hgWk`UbX"'9g'k]fX'Y]bY'GhY][Yfi b['XYf'HfUbgdUfYbn'i bX
D`UbVUf_Y]h'k]ggYbgWkUZh`]WkYf'?Uff]YfYb'Ub[YghfYVhz'i a 'XYb, VYf[Ub['j cb'XYf'k]ggYbgWkUZh`]WkYb'Ei U`]Z]n]Yfi b['ni '6Yfi ZYb]b'K]ggYbgWkUZh`K]fhgWkUZh`i bX'; YgY``gWkUZh'ni 'j YfVYggYfb"

Ni XYa 'n]Y`h'X]Y'FY[]Yfi b['XUfUi Z'UVž'7\UbW\b[YfYW\h][_Y]h']b
XYf'?Uff]YfYYbhk]W_`i b['ni 'j Yfk]f_`]W\Yb'i bX'X]Y'Ei U`]hÀh'XYf
5i gV]`Xi b['Ui Z'Y]bYa '\c\Yb'B]j YUi 'ni '\U`hYb"'Ni 'XYb
k]W\h][ghYb'A U» bU\a Yb'[Y\ÒfYb'X]Y'FYZcfa 'XYg
K]ggYbgW\UZhgnY]hj YfhfU[g[YgYhnYg'i bX'XUg'HYbi fY!HfUW_!
Dfc[fUa a ž'XUg'YVYbZU``g'XUfUi Z'UVn]Y`hž'UhhfU_h]j Y
?Uff]YfYghfi _hi fYb'ni 'gW\UZZYb"

5_hi Y``Y`GhUh]gh]_Yb`i bX < YfUi gZcfXYfi b[Yb</pre>

 $9]b \cdot 6`]W_-Ui Z:X]Y \cdot U_-hi Y``Yb \cdot ghUh]gh]gWX Yb \cdot 8 UhYb \cdot a UWX h:X]Y < YfUi gZcfXYfi b[:XYi h`]WX "=a :\delta\f \&\delta\delta' i k i fXYb \cdot]b \cdot 8 Yi hgWX `UbX (+) "')) 'YfZc`[fY]WX Y \cdot c WX gWX i `UVgWX `\OmegagY \cdot c \bY \cdot Dfca ch]cb j YfnY]WX bYh"; `Y]WX nY]h][:VYZUbXYb \cdot g]WX \cdot &\delta("-() :Ghi X]YfYbXY \cdot]b XYf \cdot Dfca ch]cbgd \ UgY\delta'i bX \cdot Yg \k i fXYb \cdot &\delta'") +\delta' YfZc`[fY]WX Y Dfca ch]cbYb \cdot UV[YgWX \cdot cggYb ":8]Yg \cdot nY][\ht \cdot XYb \cdot \cdot \cdot Yb \cdot 6YXUfZ \cdot Ub \cdot [i h ei U`]Z]n]YfhYb \cdot K \]ggYbgWX \ UZh`Yf]bbYb \cdot i bX \cdot K \]ggYbgWX \ UZh`Yfb\delta gck \cdot \cdot \cdot]b \cdot U_XYa \]gWXYb \cdot U`g \cdot U \cdot \cdot g'Ui \cdot W \cdot]b \cdot b]WX \ h! \U__UXYa \]gWXYb \cdot 6Yfi \ ZYb"$

8]Y; fi ddY;XYf;K]ggYbgWXUZh;Yf]bbYb;i bX;K]ggYbgWXUZh;Yf;]b
ZfØ\Yb;?Uff]YfYd\UgYbž;ni;XYf;8c_hcfUbX]bbYb;i bX;8c_hcfUbXYb
gck]Y;*i b]cf!;cXYf;HYbi fY!HfUW_!DfcZYggcfYb;[Y\ÒfYbž;gd]Y;h
XUVY];Y]bY;VYgcbXYfY;Fc;;Y";8]Y;I bhYfghØhni b[;X]YgYf;; fi ddY;]gh
Y]bY;nYbhfU;Y;5i Z[;UVY;XYg;6A;6:"A]h;Dfc[;fUa;a;Yb;k]Y;XYa;DU_h
ZØf;*bcj;Uh]cb;i bX;:cfgWXi b[;gck]Y;XYf;9I;nY;;YbnghfUhY[]Y;k]fX
i bhYf;UbXYfYa;j;Yfgi;W;hž;X]Y;ghfi;_hi fY;;Yb;i bX;_i;hi fY;;Yb

JYfÀbXYfib[Yb]a K]ggYbgWXUZhggmghYa jcfUbnihfY]VYb"

8i fWX 'X]Y '6Yfi Zi b['j cb'DfcZYggcf'? Ua d\Ui gYb'k]fX'X]Y': 5I
Y]bYb'k Y]hYfYb'k]WXh][Yb'6Y]hfU['ni f': ÒfXYfi b['XYf
k]ggYbgWX UZh`]WXYb'? Uff]YfYk Y[Y'`Y]ghYb'i bX'[`Y]WXnY]h]['X]Y
Ei U`]hÀh']\fYf'@Y\fY'i bX': cfgWXi b['k Y]hYf'ghY][Yfb"'9g'V`Y]Vh'ni\cZZYbž'XUgg'À\b`]WXY'\Dh]JhJhJj Yb'Vi bXYgk Y]h'a Y\f'\f b[Y'HU`YbhYUbn]Y\Yb'i bX'X]Y'5hhfU_hJj]hÀh'XYf'U_UXYa]gWXYb'@Ui ZVU\bYf\Ò\Yb"

8 Y hU]`g	
J c f ZU``	Gcbgh][Yg
Cfh	9f`Ub[Ybž'8YihgWX`UbX
EiY``Yb	• k k k "ZUi "XY
	• k k k "Va VZ"XY

6Ygi WXYb G]Y i bg Ui Z b!U["XY