

Ni _i bZh'XYf'DUd]Yf]bXi ghf]Y. '≐ 679
ZcfXYfh', i 'a Y\ f'@c\ b'_f]h]g]Yfh

9fZU\ fYb'G]Y'U''Yg'ØVYf'X]Y'U_hi Y''Yb'HUf]ZcfXYfi b[Yb'XYf
≐ 679'ZØf'X]Y'DUd]Yf]bXi ghf]Y '&\$&(žY]bgW\`Y»`]W\`Y]bYf
: cfXYfi b['bUW\`Y]bYf'9bh[Y'hYf\Ø\i b['j cb', 'DfcnYbh''≠
Y]bYa '\YfUi gZcfXYfbXYb'k]fhgW\UZh]W\Yb'I a ZY`X
X]g_i h]YfYb'; Yk Yf_gW\UZhYb'i bX'5fVY]h[YVYf'ØVYf'X]Y
Ni _i bZh'XYf'6fUbW\Y'i bX'A U»bU\`a Yb'ni f'GhY][Yfi b['XYf
5 hhfU_h]j]hÅh'XYf'GW\]W\hUfVY]h''9bhXYW_Yb'G]Y'X]Y
<]bhYf[fØbXY'i bX'5i gk]f_i b[Yb'Ui Z'5fVY]hbY\`a Yf'i bX
5fVY]h[YVYf']b'XYf'XYi hgW\Yb'DUd]Yf!'i bX'NY``ghcZZ]bXi ghf]Y"



8]Y'< YfUi gZcfXYfi b[Yb'XYf'HUf]Zfi bXY
&\$&(. '9]b'6`]W_`Ui Z'X]Y'DUd]Yf!'i bX
NY``ghcZZ]bXi ghf]Y

8]Y'VYj cfghY\YbXY'HUf]Zfi bXY'ZØf'X]Y'DUd]Yf!'i bX

NY`ghcZZ]bXi ghf]Y`]b`8Yi hgWk`UbX`k]fZiVYhfÅWk h]Wk Y` : fU[Yb`Ui Z`
X]Y`b]Wk h`bi f`X]Y`VYhY`][hYb`5_hYi fYž`gcbXYfb`Ui Wk`X]Y` [YgUa hY
6fUbWk Y`VYhfYZZYb`"GhUhh`bi f`Ui Z`X]Y` : cfXYfi b[Yb`XYf
; Yk Yf_gWk UZh`≐ 679`ni `Zc_i gg]YfYbž`]gh`Yg`YbhgWk Y`X]YbXž`X]Y
k Y]hfY]Wk YbX]Yb`5i gk]f_i b[Yb`Ui Z`X]Y`6fUbWk Y`i bX`X]Y
6YgWk ÅZh][hYb`ni `VYhfUWk hYb`"

K]fhgWk UZh`]Wk Y` : fU[]`]hÅh`]b`XYf`6fUbWk Y`

8YfnY]h]gh`X]Y`DUd]Yf!`i bX`NY`ghcZZ]bXi ghf]Y`]b`8Yi hgWk`UbX`a]h
Yf\YV`]Wk Yb`<YfUi gZcfXYfi b[Yb`_cbZfcbh]Yfh`8]Y`i a gÅhY
ghU[b]YfYbž`k Å\YbX`X]Y`F c\ghcZZ`i bX`9bYf[]Y_cghYb`ghY`[Yb`
8]Yg`\UhVYfY]hg`ni f`GWk`Y»i b[`nU\`fY]Wk Yf`DUd]YfZUVf]_Yb`i bX
ni f`Gh]`Y[i b[`j cb`A UgWk]bYb`[YZ\fh`9]b`k Y]hYfYf`F ØW_[Ub[
XYf`DUd]YfdfcXi _]cb`k ØfXY`b]Wk h`bi f`5fVY]hgd`ÅhY`[YZÅ\fXYbž
gcbXYfb`Ui Wk`X]Y` [YgUa hY`6fUbWk Y`bUWk`U`h][`gWk k ÅWk Yb`"8Yf
GhfY]h`i a `X]Y`HUF]ž Yf\UbX`i b[Yb`_ØbbhY`gca]h`XUg`5i g`ZØf`j]Y`Y
6Yhf]YVY`VYXYi hYb`"

≐ 679`ZcfXYfh`\c\Y`9f\Ø\i b[Yb`

8]Y`≐ 679`\Uh`_Øfn`]Wk`]\fY` : cfXYfi b[`bUWk`Y]bYf
; Y\U`hgYf\Ø\i b[`j cb`,`DfcnYbhž`a]bXYghYbg`YXcWk`&,\$`9i fcž
VY_Ubbh`[Y[YVYb`"Ni gÅh`]Wk`ZcfXYfh`g]Y`Y]bYb`6cbi g`ZØf
A]h[`]YXYf`"8]YgY`5bZfU[Yb`ghc»Yb`YXcWk`Ui Z`Yf\YV`]Wk Yb
K]XYfgdfi Wk`gY]hYbg`XYf`5fVY]h[YVYfž`X]Y`Uf[i a Ybh]YfYbž`XUgg
gc`Wk Y`9f\Ø\i b[Yb`i bhYf`XYb`[Y[Ybk Åfh][Yb`k]fhgWk UZh`]Wk Yb
6YX]b[i b[Yb`b]Wk h`hfU[VUf`gY]Yb`"i `f]Wk`K]YbVYi _Yfž`Y]b
\cWk fUb[] [Yg`A]h[`]YX`XYf`5fVY]h[YVYfj YfhfYhi b[ž`a Yf`_h`Ubž
XUgg`Y]bY`gc`Wk Y`9f\Ø\i b[`X]Y`DUd]Yf!`i bX`NY`ghcZZ]bXi ghf]Y`]b
]\fYf`9i]ghYbn`[YZÅ\fXYb`_ØbbhY`"

GdU`hi b[`XYf`6Y`Y [gWk UZh`

8]Y` : cfXYfi b[`bUWk`Y]bYa`≐ 679!A]h[`]YXYfVcbi g`\Uh`Ui Wk`Y]bY
8]g_i gg]cb`ØVYf`X]Y`9]b\Y]h`]Wk`_Y]h`]b`XYf`6fUbWk Y`Ui g[Y`Øgh`
5fVY]h[YVYfj YfhfYhYf`Y`bYb`Y]bY`gc`Wk Y`A U»bU`a Y`UV`i bX
VYhc`bYb`X]Y`B`c`hk`YbX][_Y]h`Y]bYf`gc`]XUf]gWk Yb` ; Ya`Y]bgWk UZhž

]bgVYgcbXYfY]b'gWk]Yf][Yb'NY]hYb"8f"6Ybbc'<i bX[YVi fhž
ghY`j YfhfYhYbXYf'J cfg]hnYbXYf'a`J YfVUbX'8 →
D5D→F →B 8 I GHF →ž'VYhcbhž'XUgg'Yg'_Y]bY'GdU`hi b[]b'XYf
6Y`Y[gWUZh[YVYb'gc`hY'i bX'XUgg'X]Y'Zcfh'Ui ZYbXY'5bYf_Ybbi b[
[Y`Y]ghYhYf'5fVY]h'Xi fW'VYfY]hg'j YfY]bVUfhY'Ni`U[Yb'k Y]hYf\]b
X]Y'F]W]hi b['VYgh]a a Yb'gc`hY"

8Yf'K Y['bUW'j cfb.'Ni gUa a YbUfVY]h'U`g'GW`ØggY`

5b[Yg]W]hg'X]YgYf'?cbZ]_hY'i bX'XYf'Ub[YgdUbbhYb'@U[Y'k]fX'X]Y
BchK YbX][_Y]hY]bYg'\Ufa cb]gWYb'A]hY]bUbXYfg']b'XYb
6Yhf]YVYb'ja a Yf'XYi h]W]Yf"9]b[Ya Y]bgUa Yf'8]U`c['nk]gWYb
5fVY]h[YVYfb'i bX'5fVY]hbY\ a Yfb'_ÖbbhY'b]W]hibi f'ni
hfU[ZÅ\][Yb'Cdh]cbYb'ZØ\ fYbž'gcbXYfb'Ui W'g]W]YfghY`Ybž'XUgg
X]Y'6fUbW]Y`Y]bY'bUW\U'h][Y'Ni _i bZi'\Uh"→XYf'_ca a YbXYb
HUf]Zfi bXY'k]fX'Yg'YbhgW]Y]XYbX'gY]bž'X]Y'→hYfYggYb'VY]XYf
GY]hYb'ni`VYfØW_g]W]h][Ybž'i a`X]Y'J]Y'ZU`hi bX'X]Y'GhÅf_Y`XYf
6fUbW]Y'ni`g]W]Yfb"

8]Y`VYj c fghY\YbXYb'J Yf\UbX'i b[Yb'g]bX'XU\Yf'b]W]hibi f'Y]b
GhfY]hi a`NU\`Ybž'gcbXYfb'Ui W'Y]b'HYgh'ZØf'X]Y'F Yg]`Ybn'i bX
XYb'Ni gUa a Yb\U'h'XYf'DUd]Yf!`i bX'NY`g`hcZZ]bXi ghf]Y`]b
8Yi hgW`UbX"9g'V`Y]Vh'UVni k UfhYbž'cV`X]Y'HUf]ZdUfhbYf']b'XYf
@U[Y'gY]b'k YfXYbž'[Ya Y]bgUa`Y]bY'@Øgi b[`ni`Z]bXYbž'X]Y`VY]XYb
GY]hYb'[YfYW]h'k]fX"

→g[YgUa hj YfXYi h]W]h'X]Y`G]hi Uh]cbž'k]Y`Yb['k]fhgWUZh]W]Y
F U\ a YbVYX]b[i b[Yb'i bX'hUf]Zdc`h]gW]Y': cfXYfi b[Yb
a]hY]bUbXYf'j YfVi bXYb'g]bX'i bX'XUgg'Y]bY'@Øgi b['bi f']b
[Ya Y]bgUa Yf'J YfUbhk cfhi b['Yfn]Y'h'k YfXYb'_Ubb"

6Yf`]bž'&\$&(<

6Ygi W\Yb`G]Y`i bg`Ui Z.`a Y]b!VYf`]b"bYh