

## NYi [ YbUi Zfi Z. 'J Yf\_Y\fgi bZU```a ]h'? ]bX ']b FY]b\Y]a !I YVYfUi

NYi [Yb'[Ygi Wkh'bUWk'JYf\_Y\fgi bZU``]b'FY]b\Y]a !I YVYfUi . ?]bX'j Yf`Yhnhž'5i hc'YbhZYfbh'g]Wk'i bYf`Ui Vh''<]bk Y]gY YfVYhYb°

GWK YfY : c [Yb ZØf X]Y ; Ya Y]bgWK UZh. $J Yf_Y fgi b ZU `` ZcfXYfh 5 i Za Yf_gUa _Y]h$ 

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8Yf'JcfZU``YfY][bYhY'g]W\nk]gW\Yb'%, .\$\$'i bX'%, .%) 'I \f'Ub'XYf K ]`\Y`a !@Yi gW\bYf'GhfU» Yž'X]fY\_h'Ub'XYf'Òfh`]W\Yb 6i g\U`hYghY``Y"'9]b'%&!'À\f][Yg'?]bX'Ui g'ChnVYf['k UfhYhY'a ]h'XfY] : fYi bXYb'Ui Z'XYb'GW\i `Vi gž'U`g'Yg'ni 'Y]bYf'6YfØ\fi b['a ]h'Y]bYa j cfVY]ZU\fYbXYb'D\_k '\_Ua "'9g']gh'Y]b'U`Ufa ]YfYbXYg'NY]W\Ybž XUgg'Y]b'?]bXž'XUg'g]W\Ub'Y]bYa 'g]W\YfYb'Cfh'Ui Z\À`hž'b]W\h'j cf XYa 'GhfU» Ybj Yf\_Y\f'[YgW\Øhnh']gh"

8 Ug'J Yf`Yhni b[gV]`X'i bX'X]Y'F YU\_h]cb'XYf 6YhY]`][hYb 8 Yf'I b ZU```ZØ\fhY'XUni ž'XUgg'XUg'?]bX'ni '6cXYb'Z]Y``i bX'XUVY]

Y]W\h'j Yf`Yhnh'k i fXY"'6YgcbXYfg'VYgcf[b]gYffY[YbX']ghž'XUgg'X]Y

\$\delta gUggYb'XYg': U\fnYi [gž'bUW\'YfghYb'\delta Zcfa Uh]cbYbž'nk Uf'bUW\
XYa '?]bX'ZfU[hYbž'UbgW\`]Y»YbX'YXcW\'c\bY'k Y]hYfY

<]`ZY`Y]ghi b[gUb[YVchY'X]Y'I bZU``ghY``Y'j Yf`]Y»Yb"'8]Yg'k]fZh'b]W\h
bi f'a cfU`]gW\Yž'gcbXYfb'Ui W\'fYW\h`]W\Y': fU[Yb'Ui Z"

#### 5 i Zfi Z'ni f'NYi [Yba Y`Xi b[

 $8 ]Y ``c\_U`Y `Dc`]nY] \check{z} [YbUi Yf`X]Y `Dc`]nY] ghUh]cb `CVYf!FUa ghUXh \check{z} V]hhYh`Xf]b [YbX`i a '<]bk Y]gY`ni `X]YgYa `JcfZU``"NYi [Ybž`X]Y`X]Y G]hi Uh]cb `VYcVUW hYh`\UVYb `cXYf` <math>\oplus$  Zcfa Uh]cbYb`ni `XYa : U\fnYi [`VYg]hnYbž`k YfXYb`Ui Z[YZcfXYfhž`g]W\`i bhYf`XYf`Bi a a Yf \$\* %) (#\*' '\$\$`ni `a Y`XYb"`  $\oplus$  `Y]bYf`NY]hž`]b`XYf`; Ya Y]bgW\UZh`i bX Gc`]XUf]hAh`k ]W\h][`g]bXž`]gh`Yg`YbhgW\Y]XYbXž`XUgg`U``Y`ni f 5i Z\_`Afi b[`VY]hfU[Yb"

# 9]b [ fÒ» YfYf HfYbX ]b XYf J Yf\_Y\fgg]W Yf\Y]h

8]YgYf'JcfZU```j YfXYi h`]W\h'Y]b`k UW\gYbXYg`6YXØfZb]g`bUW\
j YfVYggYfhYf'JYf\_Y\fgg]W\Yf\Y]hž']bgVYgcbXYfY`]b`K c\b[YV]YhYb
i bX`]b`XYf`BÀ\Y`j cb`GW\i `Yb"`9g`]gh'i bYf`Àgg`]W\ž`XUgg`gck c\`
5i hcZU\fYf`U`g`Ui W\: i » [Àb[Yf`g]W\:XYf`F]g]\_Yb`VYk i ggh'g]bX"
5i Z'dc`]h]gW\Yf`9VYbY`k]fX`X]g\_i h]Yfhž`XUgg`A U» bU\a Yb`k]Y
; YgW\k]bX][\_Y]hgVY[fYbni b[Yb`i bX`VYggYfY`6YgW\]`XYfi b[Yb
Ub`[YZÀ\fXYhYb`GhY``Yb`bchk YbX][`g]bXži a `gc`W\Y`I bZÀ``Y`]b
Ni \_i bZh`ni `j Yfa Y]XYb"

### ; Ya Y]bgWX UZh`]WX Y J YfUbhk cfhi b[

8]Y'FYU\_h]cb'XYf'; Ya Y]bgW\UZh'Ui Z'X]YgYb'JcfZU```k]fX
YbhgW\Y]XYbX'XUZØf'gY]bž'k]Y'gc`W\Y'9fY][b]ggY']b'Ni \_i bZh
j Yf\]bXYfh'k YfXYb'\_ObbYb"'9`hYfbž'BUW\VUfb'i bX'`c\_U`Y
Cf[Ub]gUh]cbYb'a ØggYb'ni gUa a YbUfVY]hYbž'i a 'XUg
6Yk i gghgY]b'ZØf'G]W\Yf\Y]h']a 'GhfU» Ybj Yf\_Y\f'ni 'gW\AfZYb'i bX
Y]bY'q]W\YfYfY'I a [YVi b['ZØf'U``Y'ni 'gW\UZZYb"

B5;

8 YhU]`g

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