

5·7ccfX]bUhYX·FYgdcbgY  
hc·7\]X·5Vi gY·UbX·BY[·YVh

H\ Y·: ci bXUh]cb

Zcf·DfUW]VY



5·7ccfXjbUHXFYgdcbg  
lc·7\j`X5Vi gYUbXB Yl`YM  
H\Y: ci bXUhc bZcf`DFUMV

∫"; c`Xa Ub  
A UfəU? "GUi ε

klh

8WcfU`Kc`VH  
?f]g]YM? YbbXn

8SS

I "G"8YdUfa YbhcZ< YUh`UbX< i a Ub`Gfj ]Wε  
5Xa ]blefUhc bZcf`7\j`XfYb`UbX: Ua ]`Yε  
5Xa ]b]gfUhc b`cb`7\j`XfYbZMi h`UbX: Ua ]`Yε  
7\j`XfYbZ6i fYU  
CZ4Wcb`7\j`X5Vi gYUbXB Yl`YM





- 
- + ' K < 5H75B '69'8CB9'HC 'DF9J9BH7 < =@8 '56I G9'5B8 'B9: @97H (9
  - DfY Yb|cb 'UgUGfUM|n (9
  - HdYgcZDfY Yb|cb '5Wj |H|Y (8
  - A Ucf 'DfY Yb|cb 'Dc|fUa 'A cXYξ ('
  - Fc 'YcZJf|ci g9bhhYg|lb 'DfY Yb|cb '9Zc|f| (+
  
  - . ' K < =7 < '@5K G5B8 'DC @=7 =9G: I =89'DI 6@=7 ' =BH9FJ9BHCB
  - =B '7 < =@8 'A 5@HF95HA 9BH

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5DD9B8=79G

5DD9B8=L'5I: @CG5FMC: 'H9FAC

- 9

5DD9B8=L'6I F9CI F79'@-GH: GC: 'G@97H98 'B5HCB5@  
CF: 5B=N5HCBG7CB79FB98 'K=k '7< =@8 'A 5@F95HA 9BH

!A

5DD9B8=L'7I G5H9'HC@@: F99'H9@9D< CB9  
BI A 69A C



# DfYZUW

gUW Xlř hY gZmUx kY'W]b[ 'cZ ga Y  
W]X XfYb' Učgg' hY BUcb' fY hfYUhbX Vn  
W]X Uı gY Ux bY 'YW' ' =bhfj Yb]b[ 'ZZWj Yn  
lb' hY 'li Yč cZ hY Y W]XfYb' Ux hYf' Zā l'Yč  
]g bch hY g' YfYgcbgV] ]hmcZUmgb[ 'Y U YbW  
cf' dfcZggcbU' [fci dž Vi hi fUhf' ]g U g'fYX  
Wa a i b]hWbWb"

GbW hY 'UY%+Sž hY  
' \Ug dfcj ]XX [i ]XU g







Hb7< B=75@'58J=CFMIDb9@

H\Y Zc`ck]b[ `kYfYa Ya Vfg cZ hY >Ubi Ufm&SS%  
HWb]W'5X]jgcfmDUBY Zcf`hY  
WbhfUM'`H\Y cf[ Ub]nUjcbg ]XbhZ]YX fZYWYUW  
a Ya VfgUZZ`UhcUhhUfla Y`"

7Ufc`nb'5VX`U  
: F=9B8GBUhcU FYci fW7Ybhf  
K U\]b]lcbz87

@Yb'6fU|  
5a YfWb`D VIVk i a Ub`Gfi Wg'5ccWUhc  
K U\]b]lcbz87

Qh'F]WfX7Uy  
A cbh]ca Yfm7ci bhmDc`]W8 YdUfla Ybl  
K \UhcZ8A 8

8]Uy8 YdUfZ`]zD'8'  
I b]j Yfg]hmcZA UfmUbxUhi6U]ha cfY  
GWcc`cZGcWU`K cf  
6U]ha cfZ8A 8

Du`lby: fUbl  
: `cf]XU8 YdUfla YbhcZ7\]`XfYb`Ubx: Ua ]`]Yc  
UWgcbj ]`Yz: @

xX]`< ]`  
7cbbY]W]h8 YdUfla YbhcZ7\]`XfYb`Ubx: Ua ]`]Yc  
< UfZcfXZ7F:

FcVfhiCfh] UED'8'  
I b]j Yfg]hmcZA ]W]U`GWcc`cZGcWU`K cf\_  
5bb'5fVcfZ8A =

BUBWFUk`]b]g  
? Ybli Wni7U]bYhZcf: Ua ]`]YcUbx7\]`XfYb  
: fUbl\_ZcfZ?N

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5884CB5@57?BCK@98: A9BH

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H\Y hlfX Yhcb' cZ h\

kU

H\g' a Ubi U' kUg' Xj YcdX UbX dfcX WX Vm 7UJWf' 5ggVUhgž : UfZiž J5ž i bXf  
7cbhUWBi a Vf' < G& &-. !SS&'

5'7ccfX]bUHX'FYgdcbgY'fc'7\]X'5Vi gY'UbX'BY[ `YVh'HY': ci bXU]cb'Zcf'DfUM]W



7 < 5DH9F %

Di f d c g Y · U b X · C j Y f j ] Y k

7 \ ] X U i g Y U b X b Y [ Y W i g U W a a i b ] m W b W b '  
9 U W W a a i b ] m U g U Y [ U U b X a c f U c V ] [ U j c b

















**F**c' dfY Ybh UbX fYgcbX hc' WjX Uvi gY UbX  
.bYl 'YWYZZWj Ynzh YfYbYXg'hc' WYUWa a cb  
i bXfghUbXjbl' cZ hY XZjblhcbg cZ h.cgy UWjcbg  
UbX ca lgc'bcg' hU'Wbdhli hY Wl'X a UhfYUa Ybh  
I bZcfi bUfYnzh YfYjgbc' gbl' 'Yzi bji YfgJ'ml'dd' jYx  
XZjblhcb'cZWj'XUvi gYUbXbYl' 'YWf' Cj Yf'h YdUg  
gy YfU' XWYXg' XZZfYbh gU'Yc'Xf'g j'bwXjbl'  
GUHfYUx: YXfU' 'Yl'gU'j YVcXjYg'U YbW'cZjWUg  
UbX fYgUfWf'g \UjY XjYcdX' XZjblhcbg' cZ  
a UhfYUa Ybh Zcf' XZZfYbh di fdcg'g' '8 YZjblhcbg  
j Ufm'UW'cg'g' h'Yg'Y |fci dg' UbX k|'h|'b' h'Ya "' : cf  
Y Ua d'Z' 'Yl'U' XZjblhcbg' Xg'WjV|'bl' 'h'Y XZZfYbh  
Zfa g' cZ WjX a UhfYUa Ybh Zcf' fYdcf'h|'bl' UbX  
Wja j'bu' d'fcg'Wjcb' di fdcg'g' UfY Zci bX a Uj'n  
j'bu' GUHfY g'U' h'g'z UbX XZjblhcbg' j Ufm'Zica' GUH



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CEI F79G'C: '89: BHCBG' 9G

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gUWmUz\i bXYgczhci gbxgcZW]XYb]b  
 hYI blhXGUhg UYi lMa gcZa UhfUa Ybh  
 ? bck`YqY cZ hY gWdY cZ hY dfcVYa` ]g`XUkb  
 df]a U]`nZca XUfYdcfhXVnGUHW]`XdfchWj`Y  
 gfj ]Wf7DGLU`YbVhg`hc`hYB UjcbU`7\]X5Vi`g  
 UbX BY`Yw 8Uu GghA`fB75B8C` `Bch U`  
 a UhfUa Ybz`ckY`fz]g\_bckb`Vrh`YU`hcf]hYg  
 H]g`Wdhf`g`a`a`U]nYg`hY`&SS`B75B8C  
 ZbX]b]g`fYUHX`hc`hY`bi`a`Vf`UbX`WUFUM]g]Vg

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bchWl g'ya UlfYUa Yblzh YmZYei YbhmWbhf]Vi h  
lc'by[Uhj YdUhmfgcZZa ]mZ bWcb]b|'

: Ua ]mGfi Wf

7\]XYb`]j]b|'k]h'gb|'YdUfYb]g'a UmYUh\|]\Yf  
f]g'cZY dY]YbWb|'d\ng]W'UbX g]i U'Ui g'YUbX  
bY'YW hUb'W]XYb' ]j]b|'k]h' hkc'V]c`c[ ]W  
au.rg<sup>0</sup> Gb|'YdUfYb]h

## H Y7 \ ] X5Vi gYUbX: UH Y' 5VgBw7cbbYUjcb

- ⌘ H YfUhcZW] XUM gY]b'gbl 'YdUfYh\ci gYc'Xg]g&-" W] XfYb dYf %SSSk\jW]gbYf ntk]W h YfUhcZW] XUM gY]b'hc' dUfYh\ci gYc'Xg]g") W] XfYb dYf %SSS'
- ⌘ 5b'UbUng]gcZW] XUM gY]Wg]b'UbUjcbU'm'fYdYg]b]Uj Yg]a d'YcZ (&Wi bhYg'Zci bXhU W] XfYb Zica' gbl 'YdUfYhZa ]'YgUfYa cfY ] Ynrc' Vyj ]M]a g'cZd\ng]W'UbXg]i U'UM gYhUb W] XfYb k\c' ]j Yk]h 'Vch' V]c'c] ]W' dUfYbg' "7ca dUfYXhc' h'Yf' dYf'g' ]j ]bl' k]h 'Vch' dUfYbg W] XfYb ]b'gbl 'YdUfYh\ca Yg\UX
  - ++dYfWb]h]fYUf'f]g' cZV]b]l' d\ng]W' m]M] gYX
  - , +dYfWb]h]fYUf'f]g' cZV]b]l' \Ufa YXVnrd\ng]W' bY] 'YU
  - %) dYfWb]h]fYUf'f]g' cZY dYf]Yb]V]b]l' 'bchU Yd\ng]W' bY] 'YU
  - +( dYfWb]h]fYUf'f]g' cZg' Zf]b]l' 'Zica' 'Ya ch]cbU' bY] 'YU
  - , \$dYfWb]h]fYUf'f]g' cZg' Zf]b]l' 'g]f]ci g]b]f' fml]gUfYg' 'hcZUM gY'
  - %SS' dYfWb]h]fYUf'f]g' cZY dYf]Yb]V]b]l' 'gca YhndYcZa UhfYUa Ybhcj YfU"
- ⌘ 5' bUjcbU' g' fj YncZbYf m' %SS' dUfYbg' Zci bXhU h+ (" dYfWb]h]cZW] XfYb k\c' ]j YXk]h' cb] dUfYh\UX VYb' g]i U' m]M] gYX' Wa dUfYXhc' cb'm' ("&dYfWb]h]cZW] XfYb k\c' ]j YXk]h' 'Vch' V]c'c] ]W' dUfYbg
- ⌘ I gbl' XUfZica' %SS' g]i X]b]g]h'fUWYXZica' gY] Yb]h' cf'Y] [\h' [fUY]b' % , , 'h'fci [\ \ \ ] [\ 'gWcc' ]b' %- &fYUfWf'g' X]M]fa ]b'Xh' Uchb' m' "&dYfWb]h]cZ]h' YVeng' UbX' ]f' g'k\c' k'YfUjg'X'k]h' Vch' 'V]c'c] ]W' dUfYbg' \UXU\ ]g'c'f'm]cZa UhfYUa Yb]h' '< ck'Y' fZ'UZ' ' ' % '\* dYfWb]h]cZ]h' cgY' ]b' ch' Yf' Z]a ]' m]g]h' Ujcbg' \UX VYb' 'a UhfYUfX
- ⌘ 5' g]i XncZ% \* ]j ]M]a g'cZW] Xg]i U'UM gY'Zci bXh' Uih' Ya Ucf] ]m]cZ]h' YW] XfYb' W]a YZica X]g]i dhX' cf' gbl' 'YdUfYh\ca Yg' cb'm' % dYfWb]h]cZ]h' YW] XfYb' ]j YX' k]h' 'Vch' 'V]c'c] ]W' dUfYbg' " 5' h'ci [\ 'g]h]Z]a ]' ]Yg'a U ]Yi d'cb'm]Uci h' % dYfWb]h]cZU' Z]a ]' ]Yg' &+ dYfWb]h]cZ]h' U]i g'XW] XfYb' ]b' h' ]g]g]i X'm]j YX' k]h' 'Y]h' Y' Ugh]Z]h' Yf' cf' h' Ya ch' Yf'g' Vcn]Z] ]YbX' (-

### A Uf]HU' 7cbZ]W]UbX8ca Yd]HW]lc' YbW

5Wf]X]b]l' 'hc' di V]g' X'g]i X]Yg' ]b' " S'hc' \* S' dYfWb]h]cZ' Z]a ]' ]Yg' k\Yf' g]ci gY' U]i gY' H] Yg' d'UW'Z' W] X' a UhfYUa Yb]h' Ucc' c'Wf]g' ) s' : ' 7 \ ] XfYb' ]b' i' lc' Yb] \ca Yg'a U]h]k] ]b' Yg]g] dUfYh]U' ]j ]c' Yb' W]za U]h' Y]j ]M]a g' cZd\ng]W' U]i gY' h' Ya gY' ]j Yg' UbX'a U]h' Yb]Y] 'YUfX'









7 < 5DH9F \*

K \ Uh5fY`h Y  
7 cbgYei YbWg`cZ7 \ ]X  
5Vi gY`UbX`BY[ `YW3

F \Y Wbgei YbWg`cZ W]X`a UhfYUa Ybi Wb  
.WY dfcZci bX UbX`a UhnYbXi fy`cb|`UZMf`hY  
Ui gYcf`bY`WncWf`g`HAYZZMg`Wb`UhdYUf`]b  
W]X`ccXZUc`YgWbWcf`Ux`h`ccXZUbXa`UhiZZM  
j Uf]ci`gUg`YMcZUb`]bX]j`]Xi`UgXy`Ycda`YbhfM`  
d`ng`Wz`W]b]hj`Z`dgnWc`c`]Wz`UbX`VY`Uj`]cfUE  
HAY`YZZMg`fUb[Y`]b`Wbgei`YbW`Zca`a`]bcf  
d`ng`W]b]f]Yg`ck`gYZgHYa`ZUhb]cb`X]gcfXfg





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CH Y' < YUH !fYUH X Dfc V' Ya ε

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A UhfYUa Ybha UmZZWU' jbxj |X Uq \YUH' |b  
Ubi a Vf' cZ XfYU'UbX |bx|fYU'kUg' : J |WJa g'cZ  
gMi U' Um gZ Zcf' YUa d'Z a Um VWa Y |bZWX  
k|h' gMi U' nifUga |hX X|gU'g|bW X|b| 'gn\ |'ε  
UbX\i a Ub'ja a i bcXZVWbWj |fi gfk =J 'fk =

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Gci Y cZ 7cgh 9gh i h X 5bbi 7cgh

8 f W 7cgh

<cg]h `]n h cb  
7\fc]W \Y `h dfcV a

7\]X kY Z fY ggh a  
@ k YbZ f `Y bh  
i ]WU ggh a

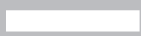
~%ž SSSSSSSSS  
~&(ž-S-ž SS  
~' (%ž/(ž-S&

GfWU Y iWh cb  
I bh ` \Y `h UbX \Y `h WfY  
i Yb]Y X ]bei YbWh

~&& ž S+ž S

5X `h W a ]bU]lm  
Hh ` ]bX fY h Wgh

~))ž, SSSSSSSSS  
~\*-ž- &ž') ž&&+



5'7 ccfX]bU]YX FYgdcbgY `c'7\]X'5Vi gY `UbX'BY[ `YWh`HY: ci bXU]cb žcf`DfUM]W

Hh ` 7cgh

~-(ž+\*ž, &) &





**F.** \Y g|ci gYg cZhYZZWg cZa UhfUa Ybi

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## Cf[U]rUjcbg'G ddcf[h]b[ 'D V]W5kUfYbYgg'5Wj] hYg

**GUH7\|XfYbQ'Hi gi: i bX**

GUH7\|XfYbQ'Hi gi: i bXgf7H g.Y]gh]b'U') S'GUH'gUbXhY8]gf]WcZ7c'ia V]Uk]h'hYg]M]WcU  
cZdfY]b]h]b[ 'W]Xa U]h]Ua Yb]i'7H g'WcfX]bU]YdfY]b]h]cbU]W] hYg]h'fci [\ci h]h'Yf'GUH'Vndfca ch]b[  
UbXZ bX]b[ 'Uj U]Y]ncZ'Wa a i b]h]M]gXdfc[f]a g]b]W]X]b[ 'di V]WkUfYbYgg'Wa dU]bg'\ca Yj]g]h]cb  
dfc[f]a g'g.]@b ZU]h U ]]hgUjUUU Q

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lc' dfY[bUha ch Yfg UbX Zla ]Yg k]h' bYkVcfbg  
5Wj ]hYgYbWa dUggfi W fYXj ]gh]b'hYZla ]nE  
\ca YZ]bZfa U'j ]ghZ UbXhYd\cbYW'g' Htd]V  
UXYgXhfcil \hU



GeVU'Gfj JWG'5| YbVW

-bVWUgbl`nagVWU'gfj JWU YbVWgUbXdfcZggcbUg  
UfY YdUbX|b|`hYf`ZcWg'hc`|bWXY dfc|fLa g  
hUi dfY Ybh Zla ]m'f'cV'Ya g Zca`YgWU|b|`hc  
Um gYcf`bY`YW`'9ZZWfj YgVWU'gfj JW|b|H|Uj Yg  
Zcf`gYb|H.Yb|b|`Za ]Yg UbX dfY Yb|b|`W]X  
a UfYUa Yb|bWXY

- # DfYbhYX W|cb'gfj JWgk\|W`Yd'dfYb|g|c  
XY Ycd`UXei Uf W]XfYf|b|`\_bck`YX Y UbX  
g.]`g
- # DfYbhUXYdfc|fLa gzk\|Wdfcj |XYg ddcfhj Y  
cbYcb|cbYfYU|cbg|dgZcf`dfYb|g
- # 7f|gg UbX Ya Yf|YbWngfj JWgk\|W`g ddcfh  
dfYb|g UbX W]XfYb`Uf Hja Yg cZ YfW|cbU  
gfYgcf`W|gg
- # HfYUa YbhZcf`Um gX W]XfYbzk\|W`dfY Ybh  
Ub`|bh|YbYU|cbU`fYfY|cb`cZ Zla ]n  
i lc`YbW

5g GUfY UbX`cW`gVWU'gfj JWU YbVWg YUa |bY  
bYk`kUg cZIXc|b|`Vi gbYgg`a UbmUfY dcc`|b|  
fYci fWg|c`dfcj |XYa cfYdfY Yb|cb'gfj JWg

GWcc`ε

K |h`|bWUgX di V|WUbX dfcZgg|cbU`UfYb|cb  
cb`hY gf|ci g`gVWU`dfcV'Ya g UZZW|b|`W]XfYb  
UbXUc`YgWb|g`gVcc`g`Uj YVWwa Yh YZcWgZcf  
a UbnbYk`dfY Yb|cb`YZcf|g|bW X|b|.

- # 7ca dfY Ybgj YZ`|bh|fUfX`dfY Yb|cb  
Wf|JWU hc`dfcj |XY W]XfYb`k|h`hY g.]`g  
\_bck`YX Yz UbX |bZcfa U|cb`bWggfmlc`WdY  
g Wggz`mk|h`hY WU`Yb| Yg cZ W]X`ccX  
UbXUc`YgWw

€ CZf|b|' gWU' ci fYUW' UbX' YX' W|cb  
dfc|fUa' g' Zcf' dUfYbg' UbX' gi' Xb|g' Ugg' W|X  
k|h' dUfcW|U' gWcc'g

### 9a d'cmfξ

5g' hY' bi' a' Vf' cZ' dUfYbg' kcf\_|b|' ci' g|XY' hY  
\ca' Y' Wb|h|bi' Yg' lc' [fckz' hY' bYX' ]bWU|g' Zcf  
kcf\_d'UWdc' ]Mg' hUig' ddcfh|Za' ]mZ' bW|cb|b|  
UbXdfca' chY' hY' dfY' Yb|h|cb' cZW]Xa' UhfYUa' Ybh  
: Ua' ]mZ' WgX' ]b|h|U|h' Yg' Zcf' hY' kcf\_d'UW  
lbWXY

€ : Y|VY' kcf\_|' gWYX' Yg' UbX' chY' IZa' ]n  
Z|YbXni' dc' ]Mg' hU' \Yd' Ya' d'cmfξ' lc  
VUUbW'h' YXa' UbXgcZ'h' Yf' kcf\_|' UbX' dUfYbU  
Wa' a' ]ta' Ybh

€ DfYbU' Yj' Ydc' ]Mg' hU' fYX' Wg' fYg' cb' bYk  
dUfYbg' UbX' \Yd' ZW]hU' dcg|hj' YUfUWa' Ybh  
Vfk' Yb' dUfYbg' UbX' h' Yf' ]bZ|bg

€ 9a d'cmf|g' ddcfhXW]XWfY

€ : Ua' ]n|cf|Yb|hX' dc' ]Mg' hU' g' ddcfh|' YUhn  
UbX' \i' a' UbY' kcf\_|b|' WbX|h|cbg' UbX' Ybg' fY  
UXei' UY|Za' ]m|bWa' Y

€ 9a d'cmYUgg' UbW' dfc|fUa' g' hU' Wb' dfcj' ]X  
]bZfa' U|cb' cb' fYX' Wb|' g' fYg'

: cf' U' kcf\_|b|' dUfYbg' U' g' ddcfh|Y' kcf\_|  
Yb|]fcb'a' Ybh' Wb' \Yd' Yg' hY' g' fYg' cZ' hY' X' U  
fYg|cbgV' ]hYg' cZ' kcf\_|' UbX' Z|a' ]m' : cf' ga' Y  
UfYU'm' ji' bYfUY' dUfYbg' U' g' ddcfh|Y' kcf\_|







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cf i bk]`|b| 'lc'a Yrh |gfYgcbgV`|mzh YGHY\U  
h YdckYf'UbXU h cf|mh' h\_YUW|cb'lc' dfchMUL  
WjXZca 'g|b|Z|Wbh\Ufa '

5 :gf]YgczI 'G'G dfYa Y7ci fhWgg\U YXZ|bYx

---

- GfYb[h Yb]b[ 5Vi gY UbX BY `Ww 7ci fhg 5M cZ &SSs' fD@%\$\*!' %E kLg Xg| bYX lc |a dfcjY hY Ua ]b|ghfUjY YZVWbWn UbX YZVWj YbYgg cZ hY Wi fhg\UbX]b[ cZ Um g| UbXbY[ `WwWgg
- Dfca ch]b[ QUZ UbX GHVY : Ua ]`Yg Dfc[fUa `FYU hcf]nU]cb cZ &SS& fD@%\$\*! %' E Wb]bi YX lc' Vi ]X i dcb' 5G 5' Vn YHbX]b[ hY DGG `Zcf' Ub' UXX]hcbU' )' nYUg UbX ]bWU]b[ `X]gW]hcbUfmZ bX]b[" `:h Ugc WUHX gY YU' bYk' dfc[fUa g ]bW X]b[ `UbYk gU]fU]fUhdfc[fUa `hUhdfcj ]XgYi W]hcb UbX hfU]b]b[ ]ci WYfgZcf'mi h `U ]b[ `ci hcZZg]f WYUbxUa Yb]cf]b[ `dfc[fUa `Zcf'W] X]Yb k]h ]bWUHX dU]Yb]g

H Yg UbX ch Y' d]Wg cZ Y ]gU]cb Ug' dfcj ]XYZcf Uj U]Ym cZZ bX]b[ ghYUa g dU]f]WUf nQUY ]fU] UbX X]gW]hcbUfm ]fU]h dfc[fUa g k\ ]W' g ddcf] dY Yb]cb' UbX hYUa Yb]g]j ]Wg Zcf' W] X]Yb UbX Z]a ]`Yg'

: YXfU'5[ YbWg

H Y 7\ ]X]Yb]g 6i fYU z Ub' U]YbWn k]h]b' hY 5Xa ]b|ghfU]cb' Zcf' 7\ ]X]Yb' UbX : Ua ]`Yg f57: E 5Xa ]b|ghfU]cb' cb' 7\ ]X]Ybz Mi h' UbX : Ua ]`Yg I "G" 8 YdUfa Yb]cZ < YU h' UbX < i a Ub' G]f ]Wg ]g hY ZcW' dc]bhZcf' : YXfU' YZcf]g'lc' UXX]Ygg hY dfcVYa `cZW] XUm gY UbX bY `Ww' H Y 7\ ]X]Yb]g 6i fYU ]g a ]ggcb' ]g lc' dfcj ]XY Zcf' hY gZ]mi dYfa UbYw]UbXkY !V]b[ `cZW] X]Yb UbX Z]a ]`Yg hfci [ \ `YU]f]g ]dZ g ddcf]h Zcf' bWg ]f]m]g]j ]Wg UbX dfcX W]j YdU]h Yf]g ]dgk]h' GUNgZ]H]Wg UbX W]a a i b]hYg' H Y 7\ ]X]Yb]g 6i fYU `Z `Z`g h]lc a ]ggcb' hfci [ \ ]g CZ]W cb' 7\ ]X 5Vi gY UbX BY `Ww]C 75B E UbX ]gZ]j YX]j ]gcbg

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F.













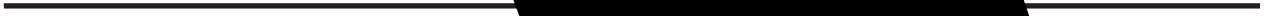






WjX a UhfYUa Ybh VWM gy h Ymk]`` dfcj jX  
Ua cfYWa d`YfY Ubx UWMUfY y Ui Ujcb` hU  
k]`` Ub`Y Ua ]bYf`k ]h ci hg]WZ]WfUj]b|'

- **A YbH` \ YUH` dYfgbbY`** a UmVY ]bj c`j YX ]b  
Uj]g]b|` h YZZWg`cZUmU`Y ]Xa UhfYUa Yb  
Ubx ]b` X]Mfa ]b]b|` h Y j U]X]m cZ g]WZ]  
U`Y ]Ujcbg` ` 5h h ]g g]U Y cZ h Y 7DG` dfc Wg]  
fY]ffUg]c` a YbH` \ YUH` dfcj ]X]fg]UfYdf]a U] n  
Zcf` \ Yd` ]b X]Mfa ]b]b|` k` \ Yh Yf` h Y





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**D5BB-B:**

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H\Y Wa dFY YbgjY Uggga Ybi cZ hY Zã ]nñ  
W\Wa dUWg UbX WbXhcbg lg hY Zci bXhcb  
cb`k\|W hY WgY dUb`lg`V |`h`5fa YXk|h`h`g  
\_bck`Y\Y7DGWgkcf\_Yg`ch`f`g`fj |Wdfcj |Xf`g  
cf` Wa a i b]m dfcZggcbUg` UbX hY Zã ]n  
UbX ]lg`g ddcfhi bYkcf`\_`k]` Xhfa ]bY hY Vg  
dcgg|VY gfUM|]g`Zcf`fX| Wb[ `cf`Y]a ]bU]b[ `hY  
VYUj]cfg UbX WbX]hcbg Wbhf]M h]b[ `hc`hYf]g  
cZa UhfYUa YbhcZhYW]X` H\Ydi fdcg`g`cZWg  
d`Ubb]b[ `fY`hc` |Xbh]Znh`Y gfUM|]g`k|h`WYbh  
h`Uk]` `Yd` UXXYgg`hY YZMg`cZa UhfYUa Yb  
UbX`Yg`b`hYf]g`cZZ`fh`f`U`g`UbX`bY`YW`hc  
dfcj |XYUWUf`UbX`g`W]W]Wi |XYZcf`h`YdfcZgg`cbU  
UbX hY Zã ]m`Zcf` WUb] ]b[ `hY VYUj]cfg UbX  
WbX]hcbgh`U]ja dUWf]g`/hc`dfcj |XYUWbWa`U`  
Zcf` a Yg`f           Zã           #           A

H YbYXgcZLa ]YgUfYcZMb Wa d'Y "'5gXlgMgX  
]b: 7\Uhf' ) z W]XUm g'UbX bY' YW]g W] g'X Vn  
a i h d'YUbX]bhfUW]b] ]bhfUfYgcbUz]bhfUfYgcbUz  
UbX Yb]fcba YbU' ZW'fz' ' -bhfi Ybhcbe' bYX  
lc' UXXYg' U' a UmcZ h Yg' Wbf]M h]b] : ]gg' Yg' U'  
dcg]VY%8' : FYUfW' cb' h Y ZZW'fi YbY' cZ W]X  
Um g'UbX bY' YW]fYUa Ybhg [ [Yg' h Uhg WgZ'  
]bhf] Ybhcb' k]h' a UhfY]b] : Zla ]Yg' fYei ]fY'  
UXXYg]b] 'Vch' h Y]bhfUfYgcbU' UbX WbW]h' bYX'  
f]l' 'z \ci g]b]z W]X W]fY' cZ U' Zla ]ma Ya Vf'g  
9j Ui U]cb' d'fc' Wg' Zi bX h U] d'fc] fLa g' h U] fYn  
g' Yni dcb d'fc' Zg]cbU' h YU'ni k]h' ci hU [a Yb]b]  
h Y g]f] ]W' g]fUM] ]Yg' k]h' ch'Y' g' ddc]f]j Y' cf  
f'la Y]U' g]f] ]Wg' h' W] X'Yb' UbX Zla ]Yg' k]' 'cZf'  
Yg' cddcf]i b]h'z'f' a U]a ]n]b] 'W]bh] U]bg'<sup>16</sup>

H YfYz'fYz' YUW' Wa a i b]h'ma i gi d'fcj ]XY U'f'cU'  
fU] Y' cZ g]f] ]Wg' h'c' a Yfi h'Y' a i 'h]X]a Yb]gcbU'  
bYX'g' cZ Um g'X UbX bY' YW]X W] X'Yb' UbX h'Yf'  
Zla ]Yg' H Yg'Ya U]n]bW'XY

- # G]f] ]Wg' d'fcj ]XX]h' h'Yb]h]fY Zla ]n]f]l' 'ZLa ]n  
d'f'Yg]f] U]cb' g]f] ]Wg' z a i 'h'g'gh'a ]W]h' YU'ni z'f'  
W] X'Yb' UbX Zla ]Yg' z'cf' Zla ]m'g]f]Yb] [h' Yb]b]  
d'fc] fLa g]
- # G]f] ]Wg' d'fcj ]XX' g]f]W]Z]W' m' h'c' d'f]Yb]g' cf

g



7 \] X dfchWj Y g f j ] W g f 7 D G L ] g h m ] W m h \)  
W b h U ' U j b W h ] b ' Y U W ' W a a i b ] h g W ] X  
dfchWj b ' g h a " ' = h i g U n d ' U n g h Y ' Y U X f c ' Y ] b  
W c f X ] b U ] b [ ' W a a i b ] W h c b ' U b X g f j ] W g U a c b [  
h Y j U f ] c i g X ] g M ] b Y g f Y g d c b g V Y Z c f ' U X X Y g g b [  
W ] X a U h Y U a Y b h ' ' = b ' U X X ] h c b ' h c ' 7 D G Z ' U k

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# G VgUbw Ui gY hfUa Ybi dfcj |Xfg cZf|b|  
gjf |Wg|c`dUf|gk\c`fYUXX|W|X|c`Xi |g

# 6|[ `6fch\Y#6|[ `G|f`C f|Ub|n|H|cbg|dfcj |X|b|  
a Y|c|f|b|` UbX` g`V|U` cddcfh|b|H|Yg` Zcf  
a U|f|Y|H|X|W|`X|Yb,

# 8ca Yg|W|c`YbWg`Yhf|g|c|Z|f|b|`g|Z|\`ci`gb|  
Uf|U|`Y|a`Y|b|g`Zcf`Ui`g|X`g|ci`g|g`UbX`h`Y|f  
W|`X|Yb,

# B|Y|`\Vcf\ccX`W|b|f|g`\Yd|b|`|c`V|`|`X`Z|a`|n  
g\_|`g`UbX|dfcj |X|b|`b|Y|k|c|f\_|`b|`cddcfh|b|H|Yg

#



**B** UqcbUz GHZ UbX `cW` a ci Ya Yblg` lc  
|bH[fUY gFj JVg UbX ja dfej Y W`UcfUjcb  
\\jY VYb` Ua cb|` hY a cgi gl|b|ZVbh hYbXg` |b  
\\i a Ub` dfi IVg ci Yf` hY `Uhi XWXY%9` `7UUngh  
g ddcfh|b|` h`|ghfYbXhckUFX|bWUgXW`UcfUjcb  
|bWXY WUb|Yg` |b` : YXfU` Z bX|b|` dfe|fUa g  
hUhi bck` YbWi fUjY W`UcfUjY YZcfhg` UbX  
hY XgfY lc` Yb\\UbW gFj JW XY|j Yfm`lc` WYbHg  
k\\c` Y\\|V|h a i` hZWX dfeVYa g%8









## -bM fUHXGfj JW8Yj YfiGngHá g

A UbníWá a i b]h]g'hfci [\ci hñYI b]hX'Ghng'fYUñá dh]b[ 'lc'WUHY ]bM fUHX'g'fj JWXY'j Yfi  
gngHá gh'U'cbcf'h'Yi b]ei YgfYb[h'g'byXg'z'UbxW'h'fYcZYUW'W]'X'UbxZá ]'m'CbYI'Uá d'Y]g  
h'Ygl 'ghg]a d'Yá Yb]b[ 'IDf'h'Yg]dg]b'5W]cbā 'k\JW'V]b]g'lc[ Yñ'Yf'Zá ]'Yg'UbxW]'X'kYZfY  
a YbU'\YUñ'z'Ubx'ch'Y'f'YUHX'gngHá g

¶ H'Ydfc[f'Uá 'j'b'6f'Ubx'7'ci bhñA ]W]U'z'U'g'g'X'Ubx'f'YX'g]b'YX'Wá a i b]h]m'g'X'g'fj ]W'g'lc  
X'j'Ycd'U'g'Uá 'Yg'z]b]h]f'UHX'gngHá 'c'Z'W'Y'Z'f' d'f'Y]b'U'bh'k'ca Yb'U'bx'h'Y'f'Zá ]'Y'g'k]h' b'Y'k'V'cfb







U ffc"):











# ; `cggUf mcZ'HYf a g

5Xi XjWcfm` YU]b]g` \YXVrhY1j Yb]YUx  
Za ]mWi fhlc` XfMa ]bYk\h Yf`UW]X\UgVYb  
a UhfYUx`cf`k`h Yf`Ubch`Yf`Y[U`VggY ]ggZcf  
hYGUHf`c` ]bhj YbYlc`dfch`Mh`YW]X

5Xcdhcb`UbXGZY: Ua ]]Yg5Wf5G 5E: g]bYx  
]brc`Uk`B`ej`Ya`Vf`%`-`+`UbX`Xg]bYX`lc`ja`dfcj`Y  
h`Y`g`ZfmcZ`W]`XfYz`lc`dfca`ch`U`Xcdhcb`UbX  
ch`Yf`d`fa`Ub`bhi`ca`Yg`Zcf`W]`XfYb`k`c`b`Yx  
h`Ya`z`UbX`lc`g`ddcfh`Za`]]Yg`:`H`Y`Uk`f`Yei`]fYg  
7DG`U`Yb`Wg`lc`dfcj`]X`a`cfY`h`a`Ym`UbX`Z`Wg`X  
U`Yga`Ybh`UbX`l`b`fi`Y`b`h`cb`d`fi`W`g`lc`h`Y`W]`XfYb  
UbX`Za`]]Yg`h`U`f`Y`g`fj`Y`X`k`]`h`b`h`Y`7`D`G`g`g`h`a`

75G5` `Wi`fhUddc]bhX`g]W]U`Ux`c`W]g`f]g`U`n  
j`c`i`bh`Y`g`k`c`g`fj`Y`lc`Y`bg`f`Y`h`U`h`h`Y`b`Y`X`g`UbX  
]bh`Y`g`g`cZ`U`W]`X`]b`W]`X`dfch`M]cb`'1`X]W]U  
dfc`W]X]b]g`UfYZ` ``ndfch`M]X

7Uy 7`cd`fY` h`Y`dfc`Wg`cZ`YbX]b]`h`Y  
fYU]cbg`]d`Vh`k`Yb`h`Y`7`D`G`kcf`\_`Yf`UbX`h`YZ`a`]`n  
h`U`c`Z`b`]`b`j`c`j`Y`g`Ua`i`h`U`U`g`Yga`Y`b`h`c`Z`d`f`c`]`f`Y`g`  
C`d`h`a`U`n`a`W`g`g`U`f`Y`W`g`X`k`h`b`Z`a`]]Y`g`U`j`Y  
U`W]`Y`X`h`Y`f`]`c`U`g`UbX`h`Y`f`]`g`c`Z`a`U`h`Y`Ua`Y`b  
U`g`V`Y`b`f`Y`i`W`X`c`f`Y`l`a`l`b`U`X

7UyDUb` h`Y`W`kcf`Xc`Wa`Y`b`h`h`U`ci`h`l`b`Y`h`Y  
ci`h`W`a`Y`g`]`c`U`g`UbX`h`g`g`b`W`g`g`f`m`lc`V`Y`U`W]`Y`Y`X  
l`b`c`f`X`f`lc`f`Y`i`W`h`Y`f`l`g`c`Z`a`U`h`Y`Ua`Y`b`h

7UyDUbb]b]` `h`Y`g`U`Y`c`Z`h`Y`7`D`G`W`g`dfc`W`g`  
k`h`Y`Y`h`Y`7`D`G`W`g`kcf`\_`Yf`X`j`Y`cd`g`U`W`g`d`U`b`k`]`h  
h`YZ`a`]`n`a`Y`a`V`f`g`

7Ukcf`\_`Yf` 7ca`d`Y`b`W`i` `X`a`c`b`d`U`h`X  
dfc`Z`g`g`cb`U`V`W`U`j`]`c`f`g`V`g`X`cb`h`Y`\_`b`c`k`Y`X]`Y`  
g`]`g`d`Y`g`b`U`e`i`U`]`h`Y`g`Ub`X`j`U`i`Y`g`U`d`Y`f`c`b`c`X`g`

7YbhfU`FY`]`g`f`m` U`W`b`h`U`]`n`X`X`U`U`U`g`Y`W`b`h`U`]`b]`b]  
]b`Z`f`a`U`]`c`b`c`b`U`g`V`g`U`b`]`U`h`X`#`Z`i`b`X`X`f`Y`d`c`f`g`c`Z  
W]`X`a`U`h`Y`Ua`Y`b`h`]b`U`g`Y`W`X`U`f`U`f`m`d`]`W`m`U  
G`U`H`E

7\`I`X`5`Vi`d`Y`D`f`Y`Y`b`h`c`b`UbX`H`Y`Ua`Y`b`h`5`W  
f`7`5`D`H`E` h`Y`Uk`f`D@`-`!&`+`E`h`U`h`d`f`c`j`]`X`g`U  
Z`i`b`X`U`h`c`b`Z`c`f`U`b`U`h`c`b`U`X`Z`b`l`h`c`b`c`Z`W`l`X`U`i`d`  
U`b`X`b`Y`Y`W`f`Y`U`h`c`f`]`n`X`]b`C`W`V`f`%`-`\*`f`D@  
%&(!&)Ez]h`k`U`g`i`d`Z`c`f`f`Y`X`]b` a`Ub`U







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a UlfYUa YbhZca `cVWff]b[ `]b`hYZ hi fYUbXcZ  
Uj c|X \YUa Ybh `A





5DD9B8-L'6

F Ygci f W '@]gh]b[ g'cZ  
GY`YWYX`BUH]cbU`  
Cf[ Ub]nUH]cbg`7 cbWf bYX  
k ]h`7\ ]X`A U`hfYUha Ybt

@







5a YfWb'Di V'W i a Ub'Gfi W'5g'WUfcb

UXFYg ,%\$: |fghGzB 9zG |hY) \$  
KUg |b|lcbz8 7' &SS&( &#+

d\cbY f&L\*, &S%\$

ZI. f&L&-!\*))

KWdh kkk'Ud\g'cf|

5XXFYg dfc|fUa' UbX dc'Wm |g| Yg fYUW  
lc' hY Ua |b|g'fUfcb' UbX XY'j Yfm cZ di V|W  
Z bXX\i a Ub'gfj |Wg' DfcZg|cbU' a Ya Vfã|d  
cf|Ub|nUfcb'

5a YfWb'DfcZg|cbU' G'Wm'cb'hY5Vi gYcZ  
7\l'XYb

UXFYg -(S'B'9"% h'Gh  
7< C' 6! (S\*  
C\_Uca U7|hãC? '+ '%(

d\cbY f(S)E&%, &S8

ZI. f(S)E&%&' %

Ya U. f|WUkl' |Ua g4ci \dWx

KWdh kkk ugg'vcl

Dfcj |XgdfcZg|cbU'Xi W|cbzdfca chgYgUWlc  
|bzfa 'ZZWj YdfUWU'UbXUXFYg'di V|Wc'W  
|g| Yg' DfcZg|cbU' a Ya Vfã|d'cf|Ub|nUfcb'

5J5B79' : Ua |`m G ddcfhi UbX 9X W|cb  
Dfc|fUa

UXFYg U fW'G' h' : f|czG |hY' , \$  
Gb'5b|cb|czHL' '+, &S+

d\cbY f&L&+S!( '\*' \$

ZI. f&L&+S!( \*%&





5DD9B8=L`7

# GHUY`Hc`!ZYY HY`Yd\cbY`Bi a VYfg`Zcf F Ydcf h]b[ `7 \ ]`X`5Vi gY

gUW`GHUY`Xg|bUhg`g|WZ|WU|YbWVg`lc`fYWj`YUbX`|bj`Yg|`UY`fYdcf`g`cZ`g`g|WVX`W|`X`U`i`g`Y`UbX`  
bY|`YW`Hd|W`nzh`|g`fYg`cbgV|`|h`j`g`Wf|`Y`X`ci`h`V`n`W|`X`d`f`c`h`W`j`Y`g`f`j`|W`g`f`7`D`G`k`|`h`|`b`U`8`Y`d`l`f`a`Y`b`l`  
c`Z`G`c`W`U`G`f`j`|W`g`8`Y`d`l`f`a`Y`b`h`c`Z`<`i`a`U`b`F`Y`g`i`f`W`z`c`f`8`|`j`|g`c`b`c`Z`:`U`a`|`n`|`b`X`7`|`]`X`Y`b`G`f`j`|W`g`:`b`g`a`Y`  
GHUY`g`c`|`W`X`d`l`f`a`Y`b`g`U`g`:`a`U`r`f`W`j`Y`f`d`c`f`g`c`Z`W|`X`U`i`g`Y`c`f`b`Y``W`

A`U`b`m`G`U`h`g`|`j`Y`U`b`|`b|`G`H`Y`l`c`|`Z`Y`Y`h`Y`d`|`c`b`Y`b`i`a`V`f`z`|`g`h`X`W`c`k`z`Z`c`f`f`Y`d`c`f`h`b|`|`g`g`|`W`V`X`U`i`g`Y``H`Y`  
f`Y`d`c`f`h`b|`|`d`l`f`m`i`a`i`g`h`V`Y`W`|`b|`|`Z`c`a`|`h`Y`g`a`Y`G`H`Y`k`|`Y`Y`h`Y`W`|`X`|`g`U`Y`|`Y`X`n`i`V`|`b|`|`U`i`g`X`Z`c`f`  
a`c`g`h`c`Z`h`Y`Z`c`|`c`k`|`b|`|`b`i`a`V`f`g`l`c`V`Y`j`U`|`X`

:`c`f`G`H`Y`g`b`c`h`|`g`h`X`c`f`k`|`Y`b`h`Y`f`Y`d`c`f`h`b|`|`d`l`f`m`i`f`g`X`g`|`b`U`X`|`Z`f`Y`b`h`G`H`Y`h`U`b`h`Y`W`|`X`z`d`Y`g`Y`W`  
7`|`]`X`Y`d`z`,`SS!(`!`5`!`7`|`]`X`f`l`SS!(`&&(`|`)'`E`z`c`f`m`i`f`c`W`7`D`G`U`Y`b`W`

5`U`g`U`f`5?`I  
. SS!(+`!`(((

=`|`bc|`g`f`@  
. SS!&`&&`+`

A`U`g`U`i`g`h`g`f`A`5`I  
. SS!+`&`)&S

5f|rcbUf5N  
... !CCG7<`=@8  
f|`,`+`\*`+!&(`|`I

=`b`X|`U`b`U`f`5`I  
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A`|`W`|`|`U`b`f`A`=`I  
. SS!`(`&(`|`)+`

5f`U`b`g`g`f`5`F`I  
. SS!(`&`)-`\*(`

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A`|`g`g`|`g`d`d`|`f`A`G`I  
. SS!&&&`SSS

7`c`b`b`W`|`W`h`f`7`H`I  
. SS!`(`&&&`,`  
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