

9]bhfUWXh'@UbXg\ih.'JYf^Øb[ib[g_if'ZØf XYb'BYiUbZUb[']b'XYf'?fY]g`][U°

9]bhfUW\h'@UbXg\i h'ghfYVh'bUW\'?cbgc`]X]Yfi b[']b'XYf ?fY]g`][U'8cbUi!@UUVYfž'bUW\XYa 'XUg'HYUa 'YfbYi h UV[Ygh]Y[Yb']gh"



@UbXg\i hž8Yi hgW\`UbX`!'8]Y': i » VU```UbXgW\UZh`]b'6UmYfb
VY_ca a h'Y]bYb'bYi Yb'5bghf]W\''8Yf': 7'9]bhfUW\h'@UbXg\i h'\Uh
]b'XYb'`YhnhYb'\J\fYb'Y]b'5i Z'i bX'5V'Yf`YVhž'XUg'ZØf'j]Y`Y
JYfY]bga]h[`]YXYf'gW\k Yf'ni 'j YfXUi Yb'k Uf"'BUW\'Y]bYf
Ui ZfY[YbXYb'NY]h'nk]gW\Yb'?fY]g!'i bX'6Yn]f_g`][Už'Y]bYa 'YfghYb
5i Zgh]Y[']b'X]Y'j]Yfh\OW\ghY'5a UhYi f_`UggY'\&\&\i' bX'Y]bYa
XUfUi ZZc`[YbXYb'5Vgh]Y[ž'ghY\h'XYf'JYfY]b'bi b'j cf'Y]bYf'bYi Yb
<YfUi gZcfXYfi b[']b'XYf'?fY]g`][U'8cbUi!@UUVYf"

BUWX Y]bYa YfbYi hYb 5Vgh]Y['Ui g'XYf'6Yn]f_g`][U']gh'VY]a :: 7
9]bhfUWXh'@UbXg\i h'XUg'N]Y`'_`Uf. 'A Ub'k]``'g]WX '_cbgc`]X]YfYb'i bX
]a 'j cfXYfYb'8f]hhY`'XYf'?fY]g`][U'8cbUi!@UUVYf'a]hgd]Y`Yb"
GdcfhWXYZ'5fa cb'@Yj c']gh'cdh]a]gh]gWXž'XUgg'XYf''Øb[YfY'?UXYfž

GdUbbYbXY'bYi Y'?cbghY``Uh]cbYb']b'XYf ?fY]g`][U

 $8]Y ?? fY]g`][U`8 cbUi !@UUVYf`gYmh`g]W\`]b`XYf`_ca a YbXYb`GU]gcbUi g`]bg[YgUa h`%(`A UbbgW\UZhYb`ni gUa a Yb"`A]h`gYW\g`HYUa gUi g`XYa `@UbX_fY]g`?Y`\Y]a `k]fX`Yg`gdUbbYbXž`XYbbBYi ni [Åb[Y`k]Y`XYf`GJ`\f\YfghY]b`i bX`X]Y`G; GUbX\Uf`UbXYb#6UX`; <math>O[[]b[Yb`Zf]gW\Yg`6`i h`]b`X]Y`@][U"5i W\`XYf`HGJ`9f[c`XgVUW\ž`HUVY``Yb`YhnhYf`XYf``YhnhYb6Yn]f_g`][U!GU]gcbž`\Uh`X]Y`7\UbW\`ni f`YfbYi hYb`9hUV`]Yfi b[Ybi hnh"`8]Y`5VghY][Yf`GJ`B]YXYf`Y]YfbXcfZž`G; K]`XYbVYf[#6]Vi f[#?]fW\XcfZ`i bX`GJ`AYb[_cZYb`kYfXYb`gca]hg]W\Yf`X]Y`@][U`VY`YVYb"$

8]Y Zc`[YbXY @]ghY nY][hX]Y HYUa g XYf'?fY]g`][U 8 cbUi #@UUVYf.

- HGJ '5VYbgVYf[
- 8 / GJ 5X _cZYb
- 8 / HGJ 5gh
- : 7.9f[cX]b[=
- HGJ '9f[c`XgVUW
- GJ '9hhYb_cZYb
- : $7 < c \setminus Ybh \setminus Ubb$
- G; $\stackrel{\cdot}{\Rightarrow}$ f`YfghY]b#9gg]b[
- \bullet : 7 '9]bhfUW\h'@UbXg\ih
- : 7 '@Y]VYfgXcfZ
- G; 'A U``YfgXcfZ#, fUZYbhfUi VUW
- HGJ BYi ghUXh#8cbUi
- G; $CZZYbghYhhYb#Fc\f$
- G; 'GUbX\Uf`UbXYb#, Ò[[]b[

9]b 6`]W_ Ui Z X]Y Ni _i b Zh

: Øf`XYb`: 7`9]bhfUW\h`@UbXg\i h`\Y]» h`Yg`U`gcžg]W\`bYi `ni Zcfa]YfYb`i bX`XYb`Y]b[YgW\`U[YbYb`K Y[`k Y]hYfni [Y\Yb"8Yf JYf`i gh'j cb`YfZU\fYbYb`Gd]Y`Yfb`k]Y`: Un`]`GYZYf]`i bX`6i f]a GUXf]i `]gh`nk Uf`gW\a Yfn\UZhž`XcW\`X]Y`bYi Yb`Ni k ÀW\gY j YfgdfYW\Yb`Y]bY`gdUbbYbXY`Gd]Y`nY]h"`8Yf`A i h`ni f`JYfÀbXYfi b[_ÒbbhY`XUg`HYUa `]b`XYf`?fY]g`][U`Ui Z`X]Y`, VYf\c`gdi f`Vf]b[Yb" 8]Y`?cb_i ffYbn`gW\`ÀZh`b]W\hž`i bX`Yg`V`Y]Vh`UVni k UfhYbž`k]Y`g]W\ X]Y`A UbbgW\UZh`i a `X]Y`bYi Yb`; Yg]W\hYf`Ybhk]W_Y`b`k]fX"

8YhU]`g	
Cfh	@UbXg\ihž8YihgW\`UbX
EiY``Yb	• k k k "Zi dU"bYh
	k k k "a]hhY`VUmYf]gW\Y"XY
	• k k k "_]W_Yf"XY

6 Ygi WX Yb G]Y i bg Ui Z bU[!VUmYfb"XY