

: 7 '7 Uf` 'NY]gg' >Y b U '\ c`h' Hc f\ ØhY f! HU`Y b h @i]g' 5 W_Y fa Ubb']bg' HY Ua °



>YbUž'8Yi hgWX `UbX'!'8Yf': 7'7Uf``NY]gg'\bU`\Uh'Y]bYb'bYi Yb
A Ubb'nk]gWXYb'XYb'DZcghYb. 'Hcf\\@hYf'@']g'5W_Yfa Ubb'k YWXgY`h
j ca 'G7'DfYi \(\) Yb'A \@bghYf'ni a 'FY[]cbU``][U!?`i V\z'i a 'X]Y'Dcg]h]cb
bUWX'XYa '5V[Ub['j cb'5`YI]cg'8YX]X]g'ni 'j Yfgh\[angle f_Yb'''8YX]X]g\z
XYf'ni j cf'X]Y'Bi a a Yf'nk Y]'\]bhYf'GhUa a _YYdYf'A Uf]i g
@|YgY[Ub['k Uf\z'\Uh'g]WX'Z\@f'Y]bYb'K YWXgY``ni '@|[U!?cb_i ffYbh
< Yfh\U'\\$' 'NY\`YbXcfZ'YbhgWX]YXYb'''8Yf'&\&!'\[angle h\z'\f][Y'5\W_Yfa Ubb\z'
XYf'Ui g'K UfYbXcfZ']a 'a \@bghYf\[angle h\z'\f] bYf'\[bYf'\f]b'Yf'FY[]cbU``][U'i bX
CVYf`][U'a]hz'X]Y']\b'ni 'Y]bYf']bhYfYggUbhYb'J YfdZ]W\hi b['Z\@f
XYb': 77'a UW\h''</pre>

8]Y 9bhgWXY]Xi b['Z]Y``_i fn'j cf'XYa 'HfU]b]b[gUi ZhU_h']b'\XbUž'k Ug

XYb'JYfUbhk cfh`]WXYb'XYg'?`i Vg'G]WXYf\Y]h'[]Vh"'Hcfk UfhhfU]bYf DUi ``?ØUg'`cVh'5W_Yfa Ubbg'Gd]Y`k Y]gY'i bX'\YVh'\Yfj cfž'XUgg'Yf VYghYbg']bg'5bZcfXYfi b[gdfcZ]`'XYg'JYfY]bg'dUggh"' @]g'\Uh'XUg DchYbn]U`ž'g]WX'k Y]hYfni Ybhk]W_Y`b ž'VYhcbh'?ØUgž'XYf'Ui Z'X]Y : cfhgWXf]hhY'XYg''i b[Yb'?YYdYfg'[YgdUbbh']gh"'A]h']bg[YgUa h'+'Gd]Y`Yb']a 'A ÀbbYfVYfY]WXž'ni `Yhnh'ZØf'X]Y'I &' 'j cb'DfYi »Yb A ØbghYfž'\Uh'5W_Yfa Ubb'VYfY]hg'VYk]YgYbž'XUgg'Yf'g]WX'Ui Z'XYa D`Uhn'VY\Ui dhYb'_Ubb"

9]b 6`]W_ Ui Z'X]Y HYUa _cbghY``Uh]cb

Hcfk Ufh! Hf]c 'ZØf'X]Y '_ca a YbXY 'Gd]Y`nY]h'ghY\Yb'bi b

5\W_Yfa Ubbž'XYf'YfZU\fYbY'A Uf]i g'@]YgY[Ub['i bX'XUg

B UW\k i W\ghU`Ybh'H]``` < \(\hat{A}fh]b[\tilde{z}'XYf'a]h'\%, \(\dagger{z}\)\fYb'VYfY]hg']a

FY[]cbU``][U_UXYf'j YfV`Y]Vh'' K \(\hat{A}\fYbX' < \hat{A}fh]b['j cfk]Y[YbX']b'XYf

I \%- 'A Ubbg\W\UZh'Gd]Y`dfUl]g'gUa a Y`b'gc``\tilde{z}'g]Y\h'XYf'J YfY]b']b

]\a 'Y]bY'G\W\`\ØggY`fc``\Y'Z\Øf'X]Y'`\Ub[Zf]gh][Y'9bhk]\W_`i b["' 9g']gh

i bg'k]\W\h][\tilde{z}'X]Y''\Øb[YfYb'HU`YbhY'ni 'Z\OfXYfb'i bX'[`Y]\W\nY]h]['X]Y

Dfc\tilde{z}a Ubbg\W\UZh'ni 'gh\hat{f}_Yb \tilde{z}'gc'Y]b'GdfY\W\Yf'XYg': 77"'8Ybbc\W\V`Y]Vh'UVni k UfhYb\tilde{z}'cV'HfU]bYf'Jc`_Ub'l `i \W]a 'Hcfk UfhVYfY]\W\

bc\W\'Y\bXYfi b[Yb']b'9fk \(\hat{A}[i b['n]Y\Yb'k]fX''

8]Y'JYfdZ]W\hi b['j cb'5W_Yfa Ubb'_ca a h'ni 'Y]bYa 'NY]hdi b_hž'UbXYa 'Ui W\'UbXYfY'DYfgcbU`YbhgW\Y]Xi b[Yb'[YhfcZZYb'k YfXYb"'GcjYf`Aggh'XYf'&,!'À\f][Y'8YZYbg]j gd]Y`Yf'D\]`]dd'K YbXh'XYb': 77bUW\'%%'9]bgÀhnYbž'i bX'Y]bY'j cfnY]h][Y'JYfhfU[gUi ZÒgi b['k i fXYjYfY]bVUfh"'Gc`W\Y'K YW\gY`'[Y\ÒfYb']a a Yf'ni 'Y]bYa 'c\bY\]bXmbUa]gW\Yb'HfUbgZYfZYbghYfž'i bX'X]Y'JYfUbhk cfh`]W\YbgW\Y]bYb'Y]b'[i hYg'<ÀbXW\Yb'ni '\UVYbž'k Ybb'Yg'XUfi a '[Y\hžZf]gW\Yb'K]bX']Y'A UbbgW\UZh'ni 'Vf]b[Yb"

Ni gUa a Yb[YZUgghinY][hiXYf: 7:7Uf`NY]gg: XbUia]hiX]YgYf
BYi ni [Ub[ž:XUggia UbiX]Y:NØ[Y`ZYghi]biXYfi<UbX:\Uhži a iVYfY]h
ZØf:X]Yi_ca a YbXY:GU]gcbini igY]b"A]hi@]g:5W_Yfa UbbiUbi6cfX
VYhf]hhiXYfiJ YfY]biX]YibYi YiGd]Y`nY]hia]hiY]bYa
j]Y`j YfgdfYWXYbXYbi?YYdYfžiXYfiVYfY]hi]ghžig]WXigY]bYbiD`Uhni]a
HYUa iYf_Àa dZYbii bXigY]bY: À\][_Y]hYbii bhYfi6Yk Y]gighY``Ybini k c``Yb"

: Øf'U``Y': i » VU``ZfYi bXYž'X]Y'XYf'JYfY]bgk Y`h'Ui Z'XYa '@Ui ZYbXYb V`Y]VYb'a ÒW\hYbž'V]YhYh'X]Y'K YVgY]hY': i ggVU``HfUbgZYfg hÀ[`]W\'U_hi Y``Y' ≠bZcfa Uh]cbYb'ni 'HfUbgZYfgž'Gd]Y`UbU`mgYb'i bX BYi][_Y]hYb'fi bX'i a 'XYb': i » VU``'Ub"

8 YhU]`g	
Cfh	XbUž8Yi hgWX`UbX
EiY``Yb	• k k k "h\i Yf]b[Yb&("XY
	• k k k "ZW/WUf`nY]gg! ^YbU"XY
	• k k k "Zi ggVU``hfUbgZYfg"Wca

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