

HÒX`]WXYf'GhfY]h'Ua '6fca VUWXgYY. %)!≫À\f][Yf'Yfgh]WXh°

5a '&&"\$*"&\$&) '_Ua 'Yg'Ua '; fc» Yb'6fca VUWkgYY']b K Y]» YbVi f[!; i bnYb\Ui gYb'ni 'Y]bYa 'hÒX`]WkYb'GhfY]h nk]gWkYb' i [YbX`]WkYb"



F Ua gVYf[ž8Yi hgW `UbX'! 5a `GUa ghU[UVYbXž'XYa `&&"'* b] &\$&) ž'_Ua `Yg`Ua `; fc > Yb`6fca VUW\gYY`VY]`F Ua gVYf[`f@UbX_fY]g K Y] > YbVi f[!; i bnYb\Ui gYbŁ'ni `Y]bYa `gW\cW_]YfYbXYb`J cfZU``ž XYf`X]Y``c_U`Y`; Ya Y]bgW\UZh`YfgW\ØhhYfhY"'6Yf]W\hYb'j cb` \\
]b[c`ghUXh!hcXUm"XY`ni Zc`[Y`YbhVfUbbhY`Y]b`GhfY]h`nk]gW\Yb nk Y]'; fi ddYb'j cb'* [YbX`]W\Ybž'XYf`gW\bY```]b`Y]bY`Vfi hU`Y _\OfdYf`]W\Y'5i gY]bUbXYfgYhni b['a \ØbXYhY"'HfU[]gW\Yfk Y]gY k i fXY`Y]b`%)!\A\f][Yf`XUVY]`gc`gW\k Yf'j Yf`Yhnhž`XUgg`Yf`bcW\`j cf Cfh`gY]bYb`J Yf`Yhni b[Yb`Yf`U["

8]Y'5i gY]bUbXYfgYhni b['VY[Ubb'[Y[Yb'&%"' \$'I \f'a]h'j YfVU`Yb Dfcj c_Uh]cbYbž'X]Y'g]WX'VU`X']b'<UbX[fY]Z]WX_Y]hYb j Yfk UbXY`hYb"'9]bY'%-!'À\f][Y': fUi ž'X]Y'bUWX'YfghYb ± Zcfa Uh]cbYb'Y]b'A YggYf'[YnØW_h'\UVYb'gc``ž'ZØW\hYhY'ni bÀW\gh j ca 'HUhcfh"'G]Y'_cbbhY''YXcW\'_i fnY'NY]h'gdÀhYf'j cb'XYf'Dc`]nY] [YZUggh'k YfXYb"'@Ui h'XYf'GhUUhgUbk U`hgW\UZh'ghY\h'g]Y']a JYfXUW\hž'Y]b'HÒhi b[gXY`]_h'VY[Ub[Yb'ni '\UVYb'i bX'k]fX'XYa 9fa]hhìi b[qf]W\hYf'ni f'?`Àfi b['XYf'<UZhZfU[Y'j cf[YZØ\fh"

8]Y 9fa]hh`i b[Yb i bX XYfYb <]bhYf[fØbXY

K]Y'k Y]hYf'VY_Ubbh'k i fXYž'g]W\YfhY'XYf'?f]a]bU`XUi YfX]Ybgh A]hhY`ZfUb_Yb'Gdi fYb'Ua 'HUhcfh'i bX'VYZfU[hY'NYi [Yb'i bX 5bk c\bYfž'i a 'X]Y'[YbUi Yb'<]bhYf[fØbXY'XYg'J cfZU``g'ni '_`ÀfYb" 8]Y'A cfX_ca a]gg]cb'XYf'5bgVUW\Yf'?f]a]bU`dc`]nY]'\Uh'X]Y 9fa]hh`i b[Yb']b'5Vgh]a a i b['a]h'XYf'GhUUhgUbk U`hgW\UZh 5bgVUW\'Ui Z[Ybca a Yb"'BcW\'V`Y]Vh'i b_`Ufž'k Ug'ni 'X]YgYa [Yk U`hhÀh][Yb'5i gVfi W\'ZØ\fhY"

 $8 \ Ugg \ gc \ W \ Y \ J \ cf ZA \ Y \ -Y \]b \ '9]bnY \ ZU \ Y \ [YbX_f]a \]bU \]hAh \]b \ '8 \ Yi \ hgWX \ `UbX'' \ @Ui \ h' \ Vd \ V'' \ XY' \]gh$ $\Rightarrow [YbX_f]a \]bU \]hAh \ \emptyset V \ Yfk \]Y \ [YbX \ a \ Abb \]WX \ i \ bX \ VY \ hf] \ ZZh \ ic Zh \ '1 \ b[Y \ A \ YbgWX \ Yb \]a \ '5 \ hYf \ nk \]gWX \ Yb \ '%' \ i \ bX \ '%, \ '$JV \ fYb''' \ '9g \ k \ i \ fXY \ ZYgh[YghY \ hz \ XUgg \ V]g \ ni \ '+$i \ XYf \ GWX \ \emptyset \ Yf \ Ub[UVYbz']b \ XYb \ YhnhYb \ %& \ A \ cb UhYb \ ghf \ UZZA \ ''][\ [Yk \ cf XYb \ ni \ gY]b''' \ Hf \ chn \ XYf \ gWX \ K \ Yf \ Yb \ J \ cf ZA \ YYk \]Y \ XYa \ Ua \ '; \ fc \ Yb \ Gf \ Ca \ VUWX \ gYY \ ghY \ Yb \ X]Y \ gWX \ K \ Yf \ Yb \ : cfa \ Yb \ XYf \ '$ \ [YbX_f]a \]bU \]hAh \ X]Y \ '5 i \ gb UVa \ Y \ XUf''$

$9]bkY]hYfYgYfgWXfYW_YbXYg'6Y]gd]Y`$

9]b'À\b`]W\Yf'JcfZU``ZUbX'Yfgh'_Øfn`]W\']b'GW\kYfhY'VY]'8cfhaibX ghUhhž'kc'Y]b'%)!À\f][Yf'Y]bYb'%,!À\f][Yb'`YVYbg[YZÀ\f`]W\
j Yf`YhnhY"'5i W\'\]Yf'\UbXY`hY'Yg'g]W\'ia'Y]bYb'GhfY]h'nk]gW\Yb
\$\forall [YbX`]W\Yb\z'XYf'ni'Y]bYa'A YggYfUb[f]ZZ'ZØ\fhY"'8Yf'HAhYf
_cbbhY'Yfgh'a]h'[Ync[YbYf'8]Ybghk UZZY'[Yghcddh'kYfXYb'ibXkifXY'UbgW\`]Y\YbX']b'IbhYfgi W\ib[g\UZh'[YbcaaYb'\VYf]W\NYb'X]Y'?c``Y[Yb'jcb':cW'g"

8]YgY'JcfZÀ``Y'k YfZYb'Y]b'GW\`U[`]W\h'Ui Z'XUg'H\Ya U \$\frac{1}{2}\text{YbX[Yk U'h'i bX'XYfYb'l fgUW\Yb"'9| dYfhYb'k UfbYbž'XUgg \$\text{Yk U'h'i bhYf'}\frac{1}{2}\text{YbX`]W\Yb'cZh'Ui g'?cbZ]_hYb']b'gcn]U`Yb'; fi ddYb cXYf'Xi fW.'[YgY``gW.UZh`]W.Yb'8 fi W_'\YffØ\fh"'8]Y'5bhk cfh'Ui Z X]YgY'9bhk]W_`i b[Yb'j Yf`Ub[h'bUW.'Y]bYf'i a ZUggYbXYb 8]g_i gg]cb'ØVYf'dfÀj Ybh]j Y'A U» bU\a Yb'i bX'9fn]Y\i b[gUbgÀhnYž i a '\$ [YbX`]W.Y'gck c\``U`g'CdZYf'U`g'Ui W.'U`g'HÀhYf'j cf XYfUfh][Yb'HfU[OX]Yb'ni 'gW.ØhnYb"

8 Y hU]`g	
Cfh	FUa gVYf[ž8Yi hgWX`UbX
EiY``Yb	k k k "]b[c`ghUXh!hcXUm"XY
	kkk"ZcW"g"XY
	• k k k "VdV"XY

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