

DcfgWXY'7UffYfU'- %%'[Yghc\`Yb.'Dc`]nY] gi WXh'NYi [Yb']b'FYW_`]b[\Ui gYb'

= b '8 cfghY b 'k i fXY']b 'XYf'B UW\h'Y]b 'gW\k UfnYf'DcfgW\Y'- \%%
[Yghc\`Yb"' <]bk Y]gY'V]hhY'Ub'X]Y'Dc`]nY]'F YW_`]b[\Ui gYb"</pre>

5a < U[Ybž'8cfghYbž'8Yi hgW\`UbX'!'\\D'XYf'X\ØghYfYb'BUW\h
j cb'8]YbghU['Ui Z'A]hhk cW\'\UVYb'g_fi dY``cgY'8]YVY'Y]b
@i I i gZU\fnYi ['[Yghc\`Yb°'8Yf'gW\k UfnY'DcfgW\Y'7UffYfU'-\%\\Z'Y]b'k U\fYf'HfUi a 'Ui Z'F\AXYfb\Z'ghUbX'V]g'ni a '8]YVghU\`'j cf
Y]bYa 'K c\b\Ui g' 5a '< U[Yb "'8Yf'JcfZU``'YfY][bYhY'g]W\
nk]gW\Yb'\&\\$\\$I\fi bX'\\$, .'\\$I\fi bX'Vf]b[h'bi b'X]Y'Dc`]nY]']b
5`Ufa VYfY]hgW\UZh"'

 $\label{lem:normalize} NYi \ [Yb\check{z}X]Y\Upsilon hk \ Ug\Upsilon JYfXAW h] \ [Yg\Upsilon VYa \ Yf_h` UVYb `cXYf` <]bk Y]gY ni `XYa `8]YVghU\` [YVYb `_ObbYb\check{z}'k YfXYb`Ui Z[Yfi ZYb\check{z}'g]W `gcZcfh i bhYf`XYf`HY`YZcbbi a a Yf`$, $$#&' *%`%%%`ni `a Y`XYb"`8Yf JYf`i gh`X]YgYg` \cW. dfY]g] \ [Yb`5i hcg`gcf[h`ZØf`Y]b`; YZØ\``XYf I bg]WXYf\Y]h`]b`XYf`BUWXVUfgWXUZh"$

8 YhU]`g	
J c f ZU``	8]YVghU\`
Cfh	5a ′< U[Ybž8cfghYbž8Yi hgWX`UbX

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z 'b!U["XY