K \Yb'h\Y'j]Wh]a 'fY[U]bYX'WcbgW]ci gbYggž'\Y'Zci bX'\]a gY`Z Vci bX'k]h\'Xi Wh'hUdY'''Cj Yf'h\Y'Wci fgY'cZ'gYj YfU`'\ci fgž'\Y'k Ug ZcfWYX'hc'k UhW\'Ug': `cfYg'g]d\cbYX'a cbYm'Zfca '\]g'VUb_ UWWci bh']bhc'\]g'ck b'''H\Y'cfXYU`'Z]bU``m'YbXYX'k \Yb'h\Y'j]Wh]a a UbU[YX'hc'YgWUdY'YUf`m'Hi YgXUm'a cfb]b['k\]`Y': `cfYg'k Ug

@Y\][\`5WfYgž:`cf]XUžI b]hYX`GhUhYg`!`=b`U`ghUfh`]b[`]bW]XYbh]b`@Y\][\`5WfYgž:`cf]XUžU`a Ub g`UhhYa dh`hc`di fW&UgY`U D`UmGhUh]cb`)`hi fbYX`]bhc`U`b][\ha UfY''`5WWcfX]b[`hc`: cl`%' BYk gžh\Y`j]Wh]a`\UX`UffUb[YX`hc`a YYh`\]g`Zf]YbXžB]Wc`Ug :`cfYgžcb`AcbXUm'Zcf`h\Y`hfUbgUWh]cb''`K\Uh`g\ci`X`\UjY`VYYb`U g]a d`Y`a YYhi d`YgWU`UhYX`]bhc`U``]ZY!h\fYUhYb]b[`g]hi Uh]cb`k\Yb :`cfYg`U``Y[YX`m'W.c_YX`h\Y`j]Wh]a`i bWcbgW]cig`k]h\`U`a UW.YhY''



5: `cf]XU'a Ubž'B]Wc`Ug': `cfYgž'ZUWYg'W\Uf[Yg'Zcf'_]XbUdd]b[UbX'fcVVYfm'UZhYf'UggUi `h]b['U'Zf]YbX'Xi f]b['U'DG) 'gU`Y"

: `cf]XU'; Ua Yf'H]YX'I d'UbX'FcVVYX'5ZhYf DG) '8YU``Hi fbg'J]c`Ybh°

 $\label{eq:linear} Ug`YYd"'< Y`k Ug`hU_Yb`hc`U``cWU``\cgd]hU``k]h\`bcb!`]ZY!h\fYUhYb]b[]b'i f]Yg"$

5ffYgh[·]UbX[·]7\Uf[Yg

H\Y`@YY`7ci bhm`G\Yf]ZZg`XYdi h]Yg`gk]Zh`m``cWUhYX`: `cfYg`Uh`\]g \ca Y`UZhYf`h\Y`j]Wh]a `fYUWXYX`ci h`Zcf`\Y`d"`6cXmWUa `ZcchU[Y fYj YU`YX`U`hYbgY`gWYbY`Ug`XYdi h]Yg`YI YW hYX`U`gYUfWX`k UffUbh" H\Ym`Zci bX`]hYa g`i gYX`hc`fYghfU]b`h\Y`j]Wh]a ž`U`cb[g]XY`U XUb[Yfci g`a]I `cZ`WcWU]bY`UbX`ZYbhUbm``dfYgYbh`Uh`: `cfYg fYg]XYbWY"`Bck ž`: `cfYg`ZUWYg`gYf]ci g`WXUf[Ygž`]bWi X]b[`fcVVYfm k]h\`U`k YUdcbž`_]XbUdd]b[ž`UbX`dcggYgg]cb`cZ`U`Wcbhfc``YX gi VghUbWY"

♣ 'h\Y'VfcUXYf'WcbhYI h'cZ'Wf]a Y']b': `cf]XUž'k Y'gYY'U'hfci V`]b[`UbXgWUdY"'5WWcfX]b['hc'7`]W_ 'Cf`UbXcž': `cf]XU g'j]c`Ybh'Wf]a Y fUhY'fYa U]bg'VY`ck 'h\Y'bUh]cbU``Uj YfU[Yž'mYh']h'\][\`][\hg'gca Y k cffm]b['hfYbXg"'H\Y': 6=g'&\$&&`ghUhg']bX]WUhY'h\Uh'cZZYbXYfg VYhk YYb'h\Y'U[Yg'cZ'&\$'UbX'' - 'k YfY'fYgdcbg]V`Y'Zcf'U'g][b]Z]WUbh bi a VYf'cZ'j]c`Ybh'Wf]a Ygž'a Ubm'cZ'k \]W\'cWW' ffYX']b'Xca Ygh]W gYhh]b[g"

7ca a i b]hm[·]FYgdcbgY

: cf`fYg]XYbhg`k Ubh]b[`hc`ghUm`]bZcfa YX`UVci h`Wf]a Y`]b`h\Y]f bY][\Vcf\ccXgž`h\Y`@YY`7ci bhm`G\Yf]ZZ g`CZZ]\W`\Ug`WfYUhYX`U \UbXm`cb`]bY`hcc`"`=h`U``ck g`i gYfg`hc`gYUfW\`Zcf`WcgYX`]bW]XYbhg fYdcfhYX`cj Yf`h\Y``Ugh`hk c`UbX`U`\U`Z`mYUfg"`H\]g`hcc``WUb`VY]bWfYX]V`m`i gYZi ``Zcf`h\cgY``cc_]b[`hc`UggYgg`gUZYhm`Vm`YbhYf]b[gdYW]Z]WghfYYh`UXXfYggYg"`<ckYj Yfž`]hg`]a dcfhUbh`hc`fYa Ya VYf h\Uh`fYgi `hg`a Um`hU_Y`i d`hc`(, `\ci fg`hc`UddYUf"

5g'XYhU]`g'Zfca `]bW]XYbhg``]_Y'h\]g'Wca Y'hc``][\hž'h\Y'Wca a i b]hm [fUdd`Yg`k]h\'h\Y'Wca d`YI]h]Yg'cZ'Wf]a Y'UbX'gUZYhm"'K \]`Y'h\]g dUfh]Wi`Uf'WUgY'YbXYX'k]h\'h\Y'j]Wh]a g'YgWUdY'UbX'Ub'UffYghž a Ubm'UfY``YZh'k cbXYf]b['\ck 'hc'dfchYWh'h\Ya gY`j Yg']b'gi W\ dfYWUf]ci g'g]hi Uh]cbg"'H\Y'\cdY']g'h\Uh'h\fci [\'Uk UfYbYgg'UbX Wca a i b]hm'j][]`UbWYž'k Y'WUb'Wcbhf]Vi hY'hc'U'gUZYf'Ybj]fcba Ybh

8 Y hU]`g	
Cfh	@Y\][\`5WfYgž:`cf]XUžIb]hYX`GhUhYg
EiY``Yb	• k k k "Zcl %' bYk g"Wca
	• k k k "g\Yf]ZZ`YYZ`"cf[
	• k k k "₩]₩_cf`UbXc"₩ca

6Ygi WXYb'G]Y'i bg'Ui Z.'a Y]b!k]Yb"bYh