@YY'7cibhm'GW&cc`g'G\]bY'k]h\'6'; fUXYž AU]bhU]b]b['GhYUXm'Dfc[fYgg°

7\Uf`chhY`7cibhm`aU]bhU]bg`U`/eich/6/eich/`[fUXY`]b`h\Y &\$&)`gW\cc``dYfZcfaUbWY`fYdcfhž`\][\`][\h]b[`ghYUXm YXiWUh]cbU``dfc[fYgg`Ua]Xgh`ghUhYk]XY`]adfcjYaYbhg"



7\Uf`chhY`7ci bhmž'I G5`!`5g`kY`XY`jY`]bhc`h\Y`YXiWUh]cb `UbXgWUdY`cZ`@YY`7ci bhmž'YIW]h]b[`bYkg`]g`i bZc`X]b[`k]h\`h\Y fY`YUgY`cZ`h\Y`&\$&)`gW&cc``[fUXYg"`K]h\`U`ghfcb[``6``fUh]b[a U]bhU]bYX`Zcf`h\Y`b]bh\`WcbgYWih]jY`mYUf YIWiX]b[`h\Y dUbXYa]WUZZYWhYX`mYUf`cZ`&\$&\$!&% h\Y`]bX]WUhcfg`g\ck``h\Uh @YY`7ci bhm`gW&cc`g`UfY`\c`X]b[``h\Y]f`[fci bX`XYgd]hY`h\Y W&U``Yb[Yg`dcgYX`Vm`fYWYbh`X]gfi dh]cbg"`H\Y`YXi WUh]cb`gmghYa \YfY`ghUbXg`Uh'U`fcVi gh`f bWhi fYž'VcUgh]b[``bchUV`Y`UW&]YjYaYbhg Ua]Xgh`Ub`Yjc`j]b[``ZfUaYkcf_"

H\Y'fYWYbh'fYdcfhžibjY]`YX'cb'\$`m'+ž'X]gWcgYg'h\Uh'&%' cZ gW\cc`g`]b'@YY'7cibhm'YUfbYX'Ub'5ž'k\]`Y''&' UW\]YjYX'U'6" 5'gc`]X'(('gWcfYX'7ž'UbXž'Zcf'h\Y'Z]fgh'h]aY']b'mYUfgž'bc gWkcc`g`kYfY'aUf_YX'k]h\'Ub': "GidYf]bhYbXYbh'8Yb]gY'7Uf`]b YI dfYgqYX'cdh]a]qa 'UVci h'h\YqY'fYqi `hqž'Ya d\Uq]n]b['U'q\UfYX Ua V]h]cb'hc'UgWfbX'hc'h\Y'hcd'h]Yf'Ua cb[':`cf]XU g'gW\cc` X]ghf]Whg"⁷iffYbh`mž[@]YY⁷cibhm`fUb_g⁺ +h\^cih^cZ^{*} + X]ghf]Whg UWfcqg'h\Y'ghUhYždc]bh]b['hckUfX'UaV]h]ciq'[cU`g'UbX'fcca'Zcf

Bc'cbY'WUb'][bcfY'h\Y'\UfX'k cf_'h\Uh'\Ug'[cbY']bhc']a dfcj]b[

gWkcc`g 5a UbYWYf'9`Ya YbhUfmž'9X[YkccX'9`Ya YbhUfmž'>'7c`]b 9b[`]q\`9`Ya YbhUfmž'UbX`@Ya i Y``HYU``A]XX`Y`GW\cc`]a dfcj YX $Zfca = 8 hc^{-} 7 z^{-} bX WUhb[YZZYWh] Y^bhYf Ybhcbg" DbY = gUbX$ 9`Ya YbhUfm`\Uq`a UXY`ci hqhUbX]b[`qhf]XYqž``YUdZfc[[]b[`Zfca `U 7 'hc'Ub' 5" '6YmcbX'h\Uhž'gW\cc`g``]_Y'; i `Z'9`Ya YbhUfm'UbX Bcfh\:cfh'AmYfg'<][\'U`gc'fcgY'Zfca' 6 'hc' 5ž'XYacbghfUh]b[

h\Y]f`Wcbh]bi YX`Wca a]ha Ybh`hc`Y`Yj Uh]b[`YXi WUh]cbU``ghUbXUfXg"

cjYfg][\h'bYI h'mYUfž'U`cb[g]XY': fUb_`]b'DUf_'UbX'<Uf`Ya '<Y][\hg

9`Ya YbhUfmž'k \]W\ fYa U]bYX`]b`h\Y` 8 `hYff]hcfm"`=b`Ub`YZZcfh`hc a]h][UhY h\YqY W\U``Yb[Yqž h\Y X]qhf]Wh d`Ubq U qYf]Yq c Z W\Ub[Yq Zcf^{*}h\Y^{*}idWca]b['qWkcc^{*}mYUf"⁵ghfUhY[]W)ı ^{*}ViX[Yh^{*}W^{*}h^{*}]b^{*}h\Y

WYbhfU``cZZ]WY`\Ug`VYYb`YUfa Uf_YX`hc`Vc`ghYf`X]fYWh`gi ddcfh`hc

gWkcc`gž'k \]`Y'U'fYcf[Ub]nUh]cb'U]a g'hc'ghfYUa `]bY'Vi fYUi WfUh]W

<ckYjYfž']h`\Ugb h'U```VYYb'ga cch\'gU]`]b["'Hcfhi [U'DfYgYfjY

9`Ya YbhUfm'ZY```hc`U` 8 `UbX`k]```ZUWY`h\Y`gWfi h]bm'cZ'ghUhY

=a dfcjYaYbhg5a]Xgh7\U``Yb[Yg

gWkcc``dYfZcfa UbWY"': `]dd]b['h\Y'bUffUh]j Yž'Zci f

[fckh\"

GhUhYk]XY HfYbXg UbX 7ca dUf]gcbg

\ifX`Yg`h\Uh'a Um`]a dYXY`dfc[fYgg"

@YY'7ci bhmg`fYqi `hg`a]ffcf`U`VfcUXYf`ghUhYk]XY`hfYbX`]b`: `cf]XU Y]h\YfUb'5'cf'6'fUh]b[žU`YUdZfca'*(i'4 ghicbYimYUfidf]cf" Bchihc'VY'cihXcbYžbY][\Vcf]b['X]qhf]Whg'UfY'U`gc'q\]b]b['Vf][\h. A]Ua]!8UXY VcUghg *'ı cZ]hg gWkcc g Uh 5ž 6fck UfX a U]bhU]bg $hg^{+}5^{+}kh^{+})' \perp \tilde{z}UbXDUa^{-}6YUWA^{-}7cibhmZc^{+}ckg^{+}g^{+}hz^{-}g^{+}ckb$ (+1 cZ'qWkcc`q'YUfb]b[hcd'a Uf_q"H\YqY'UWk]Yj Ya Ybhq

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

8 Y hU]`g	
Cfh	7∖Uf`chhY'7cibhmžIG5
EiY``Yb	● k k k "bUd`YgbYk g"Wca
	● k k k "`YYg₩kcc`g"bYh
	 Z`cf]XUdc`]h]Wg"Wca

:`cf]XU'Dc`]h]Wg"

: cf'Zifh\Yf'XYhU]`g'cb'h\YgY'XYjY`cdaYbhgž'W\YW_'cih'h\Y Wcad`YhY'fYdcfhg'Uh<mark>'BUd`Yg'BYkgž'@YY'7cibhm'GW\cc`g</mark>ž'UbX'

K]h\ h\Y`gW\cc``X]ghf]Whg``YUXYfg\]d`Z]fa `m`ZcWi gYX`cb`WfYUh]b[`U dUh\kUm`hc`h\Y`bi a VYf`cbY`gdch`]b`: `cf]XUž`h\Y`Wca a i b]hm`WUb hU_Y`df]XY`]b`Vch\`Wi ffYbh`UVWca d`]g\a Ybhg`UbX`cb[c]b[`YZZcfhg hc`ZcghYf`U`a cfY`Yei]hUV`Y`UbX`\][\!dYfZcfa]b[`YXi WUh]cbU` Ybj]fcba Ybh"`H\Y`W]a V`hc`h\Y`hcd`a Um`VY`ghYYdž`Vi h`Ug`\]ghcfm g\ck gž`k]h\`h\Y`f][\h`ZcWi g`UbX`XYhYfa]bUh]cbž`@YY`7ci bhm gW\cc`g`UfY`k Y``cb`h\Y]f`kUm`hc`fYUW\]b[`bYk`\Y][\hg"

@YY'7ci bhmgʻgi WWYggʻghcfmʻWUbbchʻVY'hc`X'k]h\ci h UW_bck `YX[]b[`]hgʻghfUhY[]WZcW'gʻcb`]a dfcj]b[`UWUXYa]W ci hWca Ygʻh\fci [\`]b]h]Uh]j Ygʻgi W\`UgʻDfc'YWhʻ6Y`]Yj YžU]a YX'Uh Ybgi f]b[`\][\!ei U`]hmʻYXi WUhcfgʻUfY'dfYgYbh`]b`Yj YfmʻWUggfcca " H\Y'GUZY'GhUfhʻ=b]h]Uh]j YʻgYY_gʻhc`]a dfcj Y`UhhYbXUbWY'Vm UX'i gh]b[`gW\cc``ghUfhʻh]a Ygžg\ck WUg]b[`UWh]cbUV`Y'ghYdgʻU]a YX Uhʻ_YYd]b[`qhi XYbhgʻYb[U[YX'UbX'dfYqYbh"

i bXYfgWcfY`U`Wc``YWh]j Y`YXi WUh]cbU``fYVci bX`Zc``ck]b[`h\Y dUbXYa]Wzk\YfY`YXi WUh]cbU``fYZcfa g`UbX`dfc[fYgg`a cb]hcf]b[\Uj Y`ZUW]`]hUhYX`h\]q`hfYbX"