

5`%\$&!mYUf!c`X`k ca Ub`]b`@Uf[cž:`cf]XUž`g\UfYg`k YY_`m A W8cbU`X/ _ \$' - /g`d]Wb]Wg`k]h\`\Yf`XUi [\hYfž`g\ck WUg]b[\YU`h\m`U[]b[`h\fci [\`gcW]U``WcbbYWh]cbg"



@Uf[cž:`cf]XUžIG5'! =b`@Uf[cž:`cf]XUžU'XY`][\hZ`'kYY_`m f]hiU``hU_Yg'd`UWY'YjYfm'HiYgXUm'YjYb]b["';U]``Ghchhž'U[Y'+(ž'UbX \Yf'gd]f]hYX'%\$&!mYUf!c`X'ach\Yfž'\$UbY'7fcZhž'aU_Y'h\Y]f`kUm'hc h\Y``cWU``AW8cbU`Xg'Zcf`k\Uh'h\Ym'ZcbX`m'WU```U`WUf'd]Wb]W'`5g 7fcZh'cfXYfg`\Yf`bc'cb]cbgž'bc'd]W_`Yg'W\YYgYVif[Yf'<Uddm AYU``UbX'Yb^cmg'U'gaU```8]Yh'7c_Yž'h\YfYg'Ub'iba]ghU_UV`Y hk]b_`Y']b`\Yf'YmY'''7`UX']b'U'V`iY'H!g\]fh'YaV`UncbYX'k]h\ Vif[Yfg'UbX'Zf]Ygž'g\Y'\Ug'VYWcaY'U'W\Yf]g\YX'Z][ifY'Uh'h\Y'ZUgh! ZccX'c]bhž'UZZYWh]cbUhY`m'XiVVYX'cbY'cZ'h\Y'U'J=D`[]f`g'Vm'h\Y Yad`cmYYg'k\c'_bck'h\Ya'KY``"

6YmcbX⁻h\Y⁻W\YYgYVi f[Yfg⁻UbX⁻Zf]Ygž⁻7fcZh⁻\Ug⁻U⁻k YU_bYgg⁻Zcf WUgg]WCfYcgžk \]W\'g\Y'XY`][\hg']b'UZhYf'a YU`g"'Ghchhžk \c'hcc_

hc': `cf]XU'hc'VY'WcgYf'hc'\Yf'XUi [\hYf"

 $K \setminus Uh^{-1}q^{-1}JbY q^{-1}qYWfYh^{-1}hc^{-1}fYUWX b[^{-1}\% & k \setminus]^{-1}gh]^{-1}fYhUb[^{-1}Yf$ ei]f_m'W\Ufa 3'K \]`Y'[YbYg'Xc'd`Um'U'dUfh'f\Yf'a ch\Yf``]j YX'hc -- Łź``]ZY ghm`Y`W\c]WYg`U`gc`a_U_Y`U`Wcbg]XYfUV`Y`X]ZZYfYbWY"`7 fcZh ghUmgʻUWh]j Yži g]b[ʻU'k U`_YfʻZcfigi ddcfhʻUbXihU_]b[icbYʻV`ccX dfYqqi fY`d]```XU]`m"`: UqW]bUh]b[`mž`q\Y`XcYqb h`Yj Yb`i qY`\YUf]b[U]Xg'UbX'\Ug``]j YX']bXYdYbXYbh`m'i bh]`'fYWYbh`m'k \Yb'g\Y'a cj YX

GYWfYhghc@cb[Yj]hm

: cf *JbY '7 fc Zhž \Yf``]ZY '\Ug VYYb 'f]W\ 'k]h\ 'gc W]U``]bhYfUWh]cbgž U _Ym'Y`Ya Ybh'h\Uh'\Ug'\Y`dYX'a U]bhU]b'\Yf'a YbhU``g\UfdbYgg" 9b[U[]b[']b'UWh]j]h]Yg'gi W. Ug'V]b[c'UbX'Yb'cm]b['h]a Y'k]h\`\Yf XUi [\hYfdfca chYg'Vch\'d\mg]WU``UbX'Wc[b]h]jY'\YU`h\" 5WWcfX]b['hc'fYgYUfW\'di V`]g\YX']b'h\Y'BUh]cbU``=bgh]hi hYg'cZ $< YU^{h} z'gcWU^{f} U^{f} Uhcbg^{d} d^{Um}U^{g} b^{Z} Wbh^{f} c^{Y}^{b} Vb^{b} b^{f}$ cbY g`\YU`h\`gdUb`UbX`cj YfU```k Y``!VY]b["

H\Y`]a dcfhUbWY`cZ`ghfcb[`gcW]U``WcbbYWh]cbg`]b`ZcqhYf]b[`U \YU`h\m`UbX`j]VfUbh`U[]b[`dfcWYgg`WUbbch`VY`cjYfghUhYX"`8f" $5a = h^5 = G \setminus U \setminus \tilde{z} \cup [Yf] Uhf] W \cup b = Uh = h \setminus Y \cap A \cup mc = 7 \cap b = W \tilde{z} \vee A \cup Ug] n Yg = h \setminus Uh$ h\Y'eiU`]hm'cZ'fY`Uh]cbg\]dg'cZhYb'cihkY][\g'[YbYh]WZUWhcfg'cf h\Y'UVgYbWY'cZ']``bYgg'k \Yb']h'Wca Yg'hc'`cb[Yj]hm"'5g'A Umc 7]b]Wdc]bhg`ci hž``cbY`]bYgg`UbX`gcW]U``]gc`Uh]cb`WUb`VY`Ug XYhf]a YbhU`hc`\YU`h\`Ug`\UV]hg``]_Y`qa c_]b[`cfcVYq]hm"

7cbbYWh]cbgUbXKY``!6Y]b[

dUfUa YX]WUZhYf'U'ZU``"

H\]a'k YY `m'UXj Ybhi fY']a'bch'/i ah'UVci h'h\Y'ZccX/']ha'U'W UbW Zcf[·]7 fcZh[·]hc[·]Yb[U[Y[·]k]h\[·]h\Y[·]k cf[·]X[·]Ufci bX[·]\Yf^{",}5ZhYf[·]h\Y]f[·]a YU[·]ž g\Y`UbX`Ghchh`\YUX`hc`U`V]b[c`[UaY`k\YfY`ZY``ck`d`UmYfg`UfY cZhYb'WUdh]jUhYX'Vm'h\Y'AW8cbU`Xg'hcm'7fcZh'fYWY]jYg'Ug'dUfh'cZ \Yf'<Uddm'A YU`"'K]h\'U'ei]W 'k]hž'7fcZh'XcYqb h'q\m'Uk Um'Zfca $g\Ufb['U'Ui [\ž'Y] Yb'c_]b['UVci h'Yf'Z]fhUh]cbg'k]h'U$

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hc'H]_Hc_'hc'g\UfY'gb]ddYhg'cZ'\Yf'a ch\Yfg'W'`]bUfm'Ybh\ig]Uga ž
a Um'\UjY']bUXjYfhYbh`m'WfYUhYX'U'ZfYg\'d`UhZcfa 'Zcf'gcW]U`
]bhYfUWh]cbž'UVW'a i`Uh]b['*+ž$$$'Zc``ckYfg'U`cb['h\Y'kUm"'7fcZhž
_bckb'UZZYWh]cbUhY`m'Ug'Aca 'cb`]bYž'Yb^cmg'h\Y'hfUWh]cb'\Yf
j]XYcg'\UjY'[U]bYX'UbX'\cdYg'hc'VY'fYWc[b]nYX'Zcf'\Yf
bYkZcibX'ZJaY"
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9a d∖Ug]n]b[[`]h∖Y[·]G]a d`Y[·]≫mg

5hih\Y'\YUfhicZ'7fcZhg``cb[Yj]hm'UbX'\Udd]bYgg`]g'U'a]I 'cZ d\mg]WU``UWh]j]hmž'gcW]U``WcbbYWh]cbž'UbX'U'dUgg]cb'Zcf`[ccX ZccX_U`fYW]dY'h\Uh'fYZYWhg'k\Uh'aUbm'fYgYUfW\Yfg`]XYbh]Zm'Ug d]jchU``Zcf`\YU`h\m'U[]b["_`5g`fYWYbh'Z]bX]b[g`]bX]WUhYž]bWcfdcfUh]b['gcW]U``WcbbYWh]cbg'UbX'aYUb]b[Zi``UWh]j]h]Yg`]bhc cbYg``]ZY`]g'YggYbh]U`"'H\]g'U`][bg'dYfZYWh`m'k]h\'h\Y'[i]XUbWY cZZYfYX'Vm'AUmc'7`]b]Wcb'aU]bhU]b]b['fY`Uh]cbg\]dgž'k\]W\

K]h\`h\Y`Zci bXUh]cb`cZ`WJa UfUXYf]Y`YghUV`]g\YX`h\fci [\`h\Y]f k YY_`m`ci h]b[gž`7fcZh`UbX`Ghchh`Ya VcXm`h\Y`gd]f]h`cZ`fYg]`]YbWW UbX`UXUdhUV]`]hm"`Gi ffci bXYX`Vm``Ui [\hYfž`[ccX`ZccXž`UbX`h\Y k Ufa h\`cZ`ZJa]`m`h]Ygž`7fcZhg`⁄ci fbYm`cZZYfg`U`\YUfhk Ufa]b[fYa]bXYf`h\Uh``]ZY g`g]a d`Ygh`d`YUgi fYg`WJb`cZhYb``YUX`hc`h\Y a cgh`Zi `Z]``]b[`YI dYf]YbWYg"`5g`g\Y`k]gY`m`di hg`]hž`g\Y`XcYgb h`ZYY` \Yf`U[Y_UbX`k \c`Wci `X`Uf[iY`k]h\`h\Uh3

8 Y hU]`g	
Cfh	@Uf[cž:`cf]XUžIG5
EiY``Yb	● k k k "hc X Um"Wc a
	 a WdfYgg"a UmcW]b]W'cf[
	• da WbWW]"b`a "b]\"[cj

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