۰

 $6 \text{ "hnhi Zb Vi 'X" gZk 'YZ L "d["i] Z"Zk 'YZ L Z" [dg"] dl "] ZVia] n"ZVi 'c \ "highi Z \ 'Zh' 'c \ "Xdck Zc 'Yz XZ "hidgZh" V[[ZXi Y 'Zi "gZahi ZY "dj i Xdb Zh" VXgdhh"] \] " 'c Xdb Z "Xdj cig' Zh#$

•

8 1 Vi 1 dc

.

GZk/Zl °fj Zhi/dc

'#L] Vi°Z[[ZXihYd"] ZVai] n°ZVi′c\°ciZgkZci′dch°/b eaZb ZciZY°′c°XdckZc′ZcXZ°hidgZh"] VkZ°dc°Y′Zi"gZaViZY°dj iXdb Zh°/c°] ^\] "
'cXdb Z°Xdj cig/Zh4

 $(\#9\,d"i] ZhZ"Z[[ZXiht]_Zhi'dch] 'ehikVgn"VXXdgY'c\"id"hdX'dZXdcdb 'X"edh'i'dc4$

•

HZVqX|Zh

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 $I] Z^*[dX] h^*d[^*i] h^*gZk^*ZI ^*h^*Y^*Zi^*gZdMZY^*dj iXdb Zh^*cXaj Y^*c Y^*ZiVgn^*fj Va^*n^*VcY^*ej gX] Vh^*c Y^*WZ] Vk^*dj gh^*Vh^*c Y^*XMdgh^d[^*i] Z Vaj] [j acZhh^d[^*Vc^*cY^*k^*/j Vah^*Y^ZiVgn^*ciV Z^*VcY^*] ZVaj] ^b ZVhj gZh^d[^*I Z^\] i 'hi Nj h''hj X] 'Vh^*7B <math>\not$ 'Vh^*Vc^*c Y^*XMdgh^d[^*i] ZVaj] hi Nj h#

.

EVgi/X/eVcihsedej al/i/dc

xXa hrdc/6Yi ahrvxzy°& °nzvqhvcy°da/zgvcy°vydazhxzcihrvxzy°&(°id°& °nzvqh°da/#

: mXaj h/dc/Hij Y/Zhil 1] "WdaZhXZcihij cYZgii] Z"\\Z"d["&(#

. .

>ciZdkZci^dcth!°Zmedhi aZth

L Z¹ 'aa'cXaj YZ'tij Y'Zhij Vî'ckZti \MZ'i] Z'VrhdX'M 'dc'dg'Z[[ZXi'd["Vcn"] ZVaj] n"ZVi'c\ "tigMiZ\n"/b eaZb ZciZY¹ 4] 'c'V XdckZc'ZcXZ'tidgZ'id''b egdkZ'Y'Zi"gZaMZY'dj i Xdb Zh#8 dckZc'ZcXZ'tidgZh¹ 'aa'WZ'YZ['cZY'Vh'Vcn"tb Vaa'tidgZ'i] Vi "hZah b dhian"[ddY'egdYj Xih#HeZX\Vafin"[ddY'tidgZht\Z#\#VyjiX] Zght¹ 'aa'WZ'ZnXaj YZY'VcY'tj eZgb Vg Zih'dg'a\/g\Z'\gdXZgn'tidgZh l 'aa'WZ'ZnXaj YZY#

Highi Z\'Zh'Xdch'YZg'Y'id'WZ'znedhj gZ'kVg\WeZh'b\]i''cXaj YZ''b egdk'c\ij Z'\kV'a\Wafn'dg'kVg'Zin'd['] ZVaj 'Zg[ddYh'c hidgZh'dg'\k'c\']ZVaj n'[ddYh'b dgZ'egdb 'cZci'edhf'dc'c\'c'hidgZ'dg'dc'i] Z'hj Za['k<a\kco'Zi'Va#'' %%'!'K d\Za'VcY'E'ZgcVh 7a\X''Zi'Va#'' %%) | #= ZVaj n'ZVi'c\'highi Z\'Zh'Xdj a\'Yoho''cXaj YZ'i] Z'egdb di 'dc'ti] gdj \] 'h'\cV\Z'Zi'Xi'd['dg'gZYj XZY'egX'c\ d['] ZVaj n'[ddYh'dg'cXgZVh'ZY'egX'c\'dg'gZhig'Xi ZY'egdb di 'dch'dc'j c] ZVaj n'[ddYh#L Z'i 'axiVahd''cXaj YZ'dVh'ZgkVi'dcVa hij Y'Zh'l] ZgZ'] ZVaj n'ZVi'c\'highi Z\'Zh'cXdckZc'ZcXZ'hidg'zh'l ZgZ'Zn\Vb 'cZY'Vh'Vc'Znedhj gZ'kVg\WeZ#

'n

8 db eVolvidozh \$Xdcioda

&l "EgglYj Xi "VkV"a\Wafin"-"X] Vc\Z"[gglb "cd\$afb 1/ZY"VkV"a\Wafin"VcY"kVg\Zin"d["] ZVai] n"[ddYh#

' ł "EgdYj Xi" eá/XZb Zci"--"j c] ZVaj n° [ddYh"/c" egdb /cZci" hidgZ" L'#Z#X] ZX dji ht "hidgZ" ZcigVcXZht" ZcY" d["V'haZht" VcY" h] Zaj" L'#Z# ZnZ" aZkZaj adXVi /dch#

(ł "Eg%Z"d["egdYj Xih"-"j c] ZVaj] n"egdYj Xi"eg%Zh"h"vCYVgY!"XJ ZVeZgdgY"h%dj ciZY"VcY"cd"XJ Vc\Z"id"] ZVaj] n"[ddY"eg%Zh#

) ł "EgdYj Xi "egdb di 'dc" – "cd\%a'b 'tZY" egdb di 'dc" d["] ZVai] n" [ddYh"VcY" egdb di 'dc" d["j c] ZVai] n" [ddYh"Z\##i] gdj \] "h\c\\Z" dg b Vg` Zi 'c\"XVb eV\ch#

•

8dci Zmi

Hij Yn'hZii'a\"AXdckZc'ZcXZ'hidqZh'LVahd'qZ[ZqpZY'id'Vh'hb Vaa[ddY'hidqZh'LVahgzZg'hidqZh\$h] dehl'WdYZ\Vhl'i'ZcYVhl#

B V'c°dj i Xdb ZŁH

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9 Vi V°ZmidvXi ^dc°ŁhZaZXi ^dc°VcY°XdY ^c\ł

Hij Yn°hZaZXi^dc/

III d'gZk'ZI Zgh'I 'aa'Veean'i] Z'Za'\ 'Wafin'XgfZgV'id'hZaZil'hij Y'Zh'[dg'cXaj h'dc'c'i] Z'gZk'ZI #7 di] 'gZk'ZI Zgh'I 'aa 'cYZeZcYZcian'hXgZzc'[j aai'Zmhh'VcY'I 'aa'cdi 'Y'hXj hhi] Z'gYZX'h'dchj ci 'aiV[iZg'hXgZzc'c\ 'h'Xdb eaziiZY#GZk'ZI Zgh'I 'aa gZXdgY'i] Z'gYZX'h'dch'[dg'ZVX] 'hij Yn'j h'c\ 'i] Z': EE>'GZk'ZI Zg) 'hd[iI VgZ#\{'i] ZgZ'VgZ'Vcn'Y'hN\gZb Zcih'WZiI ZZc'i] Z'g YZX'h'dch''i] Z'gZk'ZI Zgh'I 'aa'Y'hXj hhij Z'g_i Y\Zb Zcih'VcY'gZk'ZI 'i] Z'Vg'XaZh'V\V'c'id'gZVX] 'Vc'V\qZb Zci#

9 Vi V°ZmigVXi ′dc/

I]Zil d'gZk/Zl Zghi 'aa'cYZeZcYZcian'Xdb eaZiZYViV'ZmigWi'dc"[dghZaZxiZY'Vg'Xxzh#L Zi 'aa'ZmigWi'i]Z'gZaZkVci"YViV'VcY gZXdgY''1''c"V'[dgb "YZh^\cZY'heZx'['XVaan'[dgi] 'h'gZk'Zl #L Zi]VkZ"YZkZadeZY'il d'YViV'ZmigWi'dc"[dgb H'dcZ'[dg dVMZqkVi'dc"hijY'ZhVcY'V'hZXdcY'[dg''ciZqkZci'dc"hijY'Zh#L Zil 'aa'gZXdqY'i]Z'[daædl 'c\'c[dqb Vi'dc"Wtlji"ZVXl 'hijYn/

; datadl $^c\^YVV^Z$ migVXi $^dc!$ i] Z^cgZk^Zl Zgh^1 $^dat^cY^XVVZ^dc$ i] $Z^c[dgh^1]$ Z^c

G/h °d[°WWh°tf| Vafinl°WhZhtb Zci

G/h "d["WMn"| 'aa'WZ"VHnZHnZY"] h/c\"V"[gMb Zl dg "heZX/['/XWam"YZkZadeZY"[dgii] h^gZk/Zl "Va\cZY"| 1/1]"i] Z"Xg1ZgV"dj ia'cZY Wn"i] Z"8ZcigZ"[dg'GZk/Zl hVcY"9 1/1 h/c\"/ "dc"1:8ZcigZ"[dg'GZk/Zl hVcY"9 1/1 h/c\"/ "dc"1:8ZcigZ"[dg'GZk/Zl hVcY"9 1/1 h/c\"/ "dc"1:8ZcigZ"[dg'GZk/Zl hVcY"9 1/1 h/c\"/ "dc"1:8ZcigZ"[dg'GZk/Zl hVcY"9 1/1 h/c\"/ "dc"1:" | 3/2 gWa Zin"d["dj i Xdb Z"b ZVhj gZh"VcY"W_j hib Zci"[dg'Xdc[dj cYZgh#:sciZgcVa kVaY1n"| 'aa'WZ"VhZhTY"[dg'hj Yn"[ZVhj gZh'hj X] "Vn"i] Z"hVb eaz!"dj i Xdb Z"YZ["c"h'dc"VcY"b ZVhj gZb Zci!"[daadl "j e"VcY VcVanh1/#HZeVqNZ"gh" "d["WNhVhZhVh Zcih"] VxZ"WZzc"YZkZadeZY"[dg'i] Z"'ciZqkZci 'dc"VcY"dWhZqkVi 'dcVa'hij Y'Zh#

6 HhZhhb Zci il 'aa'WZ'XdcYj XiZY'Ni ii] Z'b Vcj hXgʻei 'aZkZ#I I dʻgʻZk'Zl Zghi 'aa'_j Y\Z'ZVXJ 'b Vcj hXgʻei 'dc' ZVXJ "XgʻtZgʻdc' Vh Zfi] Zgʻadl !'b ZYfj b 'dgʻ] \langle gʻh 'd['WWhVcY' egdk'YZ'V VdgʻZ['_j hi '['XM' dc#GZk'Zl Zghi 'aai] Zc' VhhZhhi] Z'dkZgVaighi 'd[WWhi[dgii] Z'hij Yn "VcY" 'cY'XMiZ'il] Zij Zgʻi Zgʻz'h "V'adl !'b ZYfj b 'dgʻ] \langle gʻh 'd['WWh#; ['i] ZgʻZVgʻZ'YhV\gʻZZb Zci hi'i] ZgʻzVgʻZ'YhV\gʻZZb Zci 'higZVXJ ZY#; ['gʻZk'Zl Zgh'Yd'cdi 'gʻZVX] "Vc' V\gʻZZb Zci! V'i] 'gʻY 'gʻZk'Zl Zgʻl 'aa WZ'Vh ZY'id'gʻZk'Zl 'i] Z'hij Yn "VcY'b V' Z"V_j Y\Zb Zci#

 $\label{eq:limit} Hij Y'Zh1 1] V] ^] \circ gh \circ d[Wh1 2aWZ ^cXaj YZY ^c1] ZYVVV'hnci] ZhhhWji 1 Z1 2aYZXaVgZ Vcn^hij Y'Zh1] Vi] VkZ^V] ^] \circ gh d[Wh#$

HighiZ\n^[dg^YViV^mci]Zh/h~P&X]Vc\ZR

L Z°Vci^X^eViZ°i] Vi°i] ZgZ°l ^aaVZ°h^\c^{^xVci°] ZiZgd\ZcZ^hn^c°i] Z°Zmedhj gZh\$°ciZgkZci^dch^VcY°dj iXdb Z°kVgVWgZh^VZ^c\

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6cVanh^nd[^hj VXgdj eh^dg^hj V\hzih

 $I \] \ Z'' j \ i] \ dgh'V'b \ "id" XVggh'dj i "hj WVgdj e "VcVanhZhi[dg'cY'k-Yj Vd'"VcY'] \ dj hZ] \ da''' "aZkZa'[VXidgh'cXaj Y'c\"V-X'V-Y'b Vg' Zgh'd[hdX'dZXdcdb 'X'hi Vij h'hj X] "Vh'cXdb Z'id" VhhZhhi] Zi] Zg'Z[[ZXihkVgh'Wh'hdX'dZXdcdb 'X'hi Vij h#6 gZV'aZkZa'[VXidgh'hj X] "Vh b Vg' Zgh'd["Zi] c'X'\gdj e "heZX'['XYZeg'kVi 'dc'l 'aa'Vahd'W'Znneadg'Y'l] ZgZ'edhh\WaZ#Egdk YZY'i] Vi "hij Y'Zh'gZedg'i] ZhZ YVIV.'l Z'V'b "id'egZh'Zci "V'YZh\Xg'ei 'kZ'VcVanh'h'd["] \ dl "i] Z'dj i Xdb Z'Z[[ZXih'kVg'ZY'VXXdgY'c\"id"i] ZhZ''cY'k-Yj Va''VcY'VgZV' aZkZa'[WXidgh#$

6 "hj Wkgdj e "vcVanh"hil 'æiVZ" eZgj 'cZci "WZKVj hZ" Vdil] "'cY'k' (Yj Vd!!") dj hZ] dah" "VcY" VgZV" aZkZa" [VXidgh" VgZ" cdl c"id" 'c[aj ZcXZ Y'Zi" gZahiZY" dj i Xdb Zh" i] j hii] Z"dj i Xdb Z"Z[[ZXihil 'æia" Zan" kVgn" VXXdgh' 'c\"id"i] ZhZ" [VXidgh#I] Z"VcVanh"hiXdj ah'ii] ZgZ[dgZ

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H\Y`fYWdfX`ck bYf`WdbZ]fa g'h\Uhit\Y`]bZcfa Ut]cb't\Ym\Uj Y`g' dd`]YX`Zcf't\]ggi Va]gg]cb`]g'UMVfUtY`UbX`Wa d`YtY`UbX`t\Ym i bXYfg'UbX`t\UhiXY`]VYfUtY`dfcj]g|cb`cZ`]bUMWfUtY`]bZcfa Ut]cb`cf`ca]gg]cb`cZ`XUtU`a UmiVY`Wdbg'fi YX`Ug'gV]Ybt]Z]W a]gWdbXi Wf

H\YfYNdfX`ck bYf`VldbZ]fa gth\Uhth\Ymk]``i dXUfY`th\Y'gfuhi g`cZ'th\Y'fYj]Yk 'k\Yb`]h]gVlda d`YfYX`UbX`k]``'UXX`di V`]WUf]cb XYfU[`g]b`Xi Y`Vldi fgY''

.

K Zgh'dch

8%B Vn" %)