

## 6cWU'si b]cfg'gYhnh'Ui Z'Fi ggc. 'HfU]bYf! 7ca YVUW\_'j cf'? `i V!K A °

A ][ i Y`` $\sharp$  b[ Y``F i ggc '\_Y\fh'ni '6cWU' $\sharp$  b]cfg'ni fØW\_ $\sharp$ 'i a 'XUg HYUa 'VY]'XYf':  $\sharp$  5 '? `i V!K A '&\$&) ']b'XYb'I G5'ni 'WcUW\Yb"

A ]Ua ]žI G5 !!8]Y '6cWU  $\Rightarrow$  b]cfg ghY\Yb 'j cf 'Y]bYf 'Ui ZfY[YbXYb NY]hžk À\fYbX 'XYf'? `i V 'X]Y 'F ØW\_\_Y\f 'XYg 'HfU]bYfg 'A ][ i Y `` š b[Y `Fi ggc 'ni 'gY]bYa 'Xf]hhYb '5a hgnm\_`i g 'VY\_Ubbh'[UVYb" 'Fi ggc 'Zc `[h Ui Z: YfbUbXc '; U[ cž XYf 'bUW\ 'Y]bYf 'B]YXYf `U[ Y ']a dfYgh][YhfÀW\h][Yb 'Gi dYfW\%g]Wc '[ Y[ Yb 'F]j Yf 'D`UhY 'Ybh`UggYb k i fXY" '8]Y '6cWU  $\Rightarrow$  b]cfg \UVYb 'a ]h'Fi ggc z XYf 'VYfY]hg '&\$\$+ 'X]Y 7cdU @\VYfhUXcfYg \ii bX '&\$&\$ 'X]Y '5f[ Ybh]b]gW\Y 'A Y]ghYfgW\UZh [Yk Ubbz'[fc \in Y '5a V]h]cbYb 'Z\Øf 'X]Y ': \(\Rightarrow 5 '? `i V!K A '&\$&) ']b 'XYb | G5"

A ]h'\*- '\*\*J\fYb'k ]fX'Fi ggc'XYb'5`hYfgfY\_cfX'Ui Z'XYf'HfU]bYfVUb\_XYf'6c\WU'\*\* b]cfg'\OVYfg\W\fY]hYb"'GY]bY'J YfdZ]\W\hi b[ 'gd]Y[ Y`h k ]XYfž'XUgg'XYf'? 'i V'X]Y'VYj cfghY\YbXY'? 'i V!K Y`ha Y]ghYfg\W\UZh Yfbgh'b]a a h"'Fi ggc'a i gghY'g]\W\''YXc\W\'a ]h'\_ca d`]n]YfhYb JYfhfU[ gVYX]b[ i b[ Yb'VY]'GUb'\@cfYbnc'VYg\W\AZh][ Ybž'k Ug'ni Y]bYa 'OZZYbh`]\W\Yb'GhfY]h'Z\O\fhY'i bX'gY]bYb'cZZ]n]Y``Yb'GhUfh'VY] 6c\WJ'j YfnO[ YfhY"'8Yf'HfU]bYf'k ]fX'j cfUi gg]\W\h`]\W\'V]g'ni a '9bXY XYf'K c\W\Y'cZZ]n]Y``'j cf[ YghY``h'i bX'gc``'Ua '8]YbghU[ 'XUg'HfU]b]b[ \OVYfbY\aYb"

## JcfVYfY]hi b[Yb ZØf X]Y?`i V!K A

 $8 ]Y := 5 ?? i V!K A . \& \& \&) . Z]bXYh'j ca . \%) " : $ b] V]g . \% " : $ i] ]b : XYb I G5 : ghUhhž'k cVY] . 6 cWU : $ b] cfg : ]b : $ fi ddY : 7 : a ]h : 6 UmYfb : A ØbWXYbž 6 YbZ]WU : bX : 5 i W_ `UbX : 7 ]hm : gd]Y `h" : 8 ]Y : 5 i g`cgi b[ ž:X]Y : ]a 8 YnYa VYf : & & ( : ]b : A ]Ua ] : ghUhhZUbXž : gcf[ hY : ZØf `\ c \ Y : 9 fk Ufhi b[ Yb$ 

]bbYf\U`V`XYg`HYUa g"'8 Ug`YfghY`Gd]Y``XYf`6cWU $^{\downarrow}$ b]cfg`Z]bXYh`Ua %+"' $^{\downarrow}$ b]'[Y[Yb`6YbZ]WU']a '< UfX`FcW\_`GhUX]i a ']b`A ]Ua ]'ghUhhž [YZc`[h'j cb`XYa 'a ]h`GdUbbi b[ 'Yfk UfhYhYb'8i Y```[Y[Yb`XYb': 76UmYfb`A ØbWXYb`Ua '&%"' $^{\downarrow}$ b]"

## HYUa ni gUa a YbghY``i b[ 'i bX'Gd]Y`Yf

8 Y f'? UXY f'j cb'6 c WU' ≯ b]c fgž'XY f'a ]h'HU`Y bhY b'[ Y gd] W\_h']ghž i a ZUggh'gck c\`'Y fZU\fY b Y'Gd] Y`Y f'U`g'Ui W\'Ui ZghfY V Y b X Y'GhUfg.

?UhY[cf]Y	Gd]Y`Yf
Hcf\ØhYf	5[igh]b^AUfWXYg]bž@YUbXfc
	6fYmžGYf[]cFcaYfcžIJj]Yf
	; UfWJU
JYfhY]X][Yf	is the first state of the state
	@ WUg'6`cbXY`žB]Wc`½g':][U`ž
	7f]gh]Ub @Ya Už@Ui hUfc 8] @c``cž
	AUfWcgFc^cž5mfhcb7cghUž
	A UhYc'A YbX]Už'@Ui hUfc'6`UbWcž
	A UfWY`c'GUfUWWX]ž': fUb_': UVfU
A ]hhY`ZY`Xgd]Y`Yf	5bXYf` <yffyfuž'k ]``]ua="" g<="" th=""></yffyfuž'k>
	5`UfW bž'GUbh]U[ c 8 U`a Uggcž
	FcXf][c'6UhhU[`]Už'A]`hcb
	8Y`[UXcžHca ½g`6Y`a cbhYž
	-{ bUW]c A ]fUa Ï bž7Ua ]`c FYm
	8ca YbYW\ž'?Yj ]b NYbï bž
	5[ighÉb∵AUfhY[Ub]žxcUeiÉb
	Fi]n
GhØfa Yf	9X]bgcb 7Uj Ub]žA]`hcb
	; ]a ÅbYnžA][iY`AYfYbh]Y`ž

5`Ub`JY`UgWcž'6f]Ub`5[i]ffYž	
7Uf`cg'DU`UW]cgž'9lYei]Y`	
NYVU``cgž'@ WJg'>Jbgcb	

8]Y'6cWU'¾ b]cfg'k c``Yb'a ]h'Y]bYf'ghUf\_Yb'@Y]ghi b['Ub']\fY
ZfØ\YfYb'9fZc`[Y'Ub\_bØdZYbž'XUfi bhYf'Ui W\'XYf'Hf]i a d\']a

♣bhYf\_cbh]bYbhU`!Dc\_U`ž'XYb'XYf'?`i V'XfY]a U``f‰-++ž'&\$\$\$ž'&\$\$' Ł
[Yk]bbYb'\_cbbhY"'8Ug'HYUa '\Uhrbi f'Y]ba U``Ub'XYf'?`i V!K A
hY]`[Ybca a Yb'i bX'XUVY]']a ':]bU`Y'[Y[Yb'57'A U]`UbX'j Yf`cfYb"
BYi Y'Hf]\_chg'a ]h'Ui ZZÀ``][Ya '8Yg][b'g]bX'ZØf'X]YgY
dfYgh][YhfÀW\h][Y'JYfUbghU`hi b['YVYbZU``g']b'JcfVYfY]hi b[ž'a]h
Y]bYf'j YfVYggYfhYb'G]W\hVUf\_Y]h'XYf'Gd]Y`YfnU\`Yb'Ui Z'XYf

 $8 ]Y'JcfZfYiXY'UiZ'X]Y': = 5 ??`iV!KA`kÀWXghžibX'X]Y'6cWU'$b]cfg \\ gWXY]bYb'VYfY]hž']\fY'HfUX]h]cb'U`g'Y]bYf'XYf'VYXYihYbXghYb'?`iVg \\ ]a ']bhYfbUh]cbU`Yb': i >> VU```ZcfhnigYhnYb'''5``Y'Gd]Y`Y'XYf'?`iV!KAkYfXYb'`]jY'UiZ'85NB'ØVYfhfU[Yb''$ 

: Øf'k Y]hYfY'8 YhU]`g'ni 'XYb'9bhk ]W\_`i b[Yb'VY]'XYb'6cWU'¾ b]cfg
\_ÒbbYb'X]Y'5fh]\_Y`'j cb'cd!cb`]bYž'CbY: cchVU``'i bX': `Ug\gWcfY'cd!
cb`]bYž'CbY: cchVU``'i bX': `Ug\gWcfY'VYgi W\h'k YfXYb"

8 Y hU]`g	
J c f ZU``	Gcbgh][ Yg
Cfh	A ]Ua ]ž'l G5
EiY``Yb	<ul><li>k k k "cd!cb`]bY"XY</li></ul>
	• cbYZcchVU``"Wca
	<ul><li>k k k "Z`Ug\g\cfY"XY</li></ul>

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