

# 9]b $\lambda \ f Z \emptyset f X U g A Y Y f ! GhUX h @Y]d n][$

9fgh'5bZUb['Bcj Ya VYf'&\$&%Yf\]Y`h'XUg
BUhi f\_i bXYa i gYi a 'XYb', "'GÀW g]gW Yb'A i gYi a gdfY]g'ZØf
gY]bY']bbcj Uh]j Yb'?cbnYdhY'i bX'X][]hU'Yb'K Y[Y'XYf
JYfa]hh`i b['j cb'A i gYi a g]b\U`hYb"'K]Y'[i h'Y]bY'UbU'c[
Ui ZVYfY]hYhY'5i gghY``i b['\_i fnZf]gh]['X][]hU`]g]Yfh'k YfXYb
\_Ubbž'a i gg'XUg'< Ui g'bi b'k À\fYbX'XYf'GW`]Y\*i b['bUW\
XYf'7cfcbU!Bchj YfcfXbi b['a Y\f'VYk Y]gYbž'U`g'Yg'XYb
JYfUbhk cfh`]WXYb'`]YV']gh"' 8 Ug'A i gYi a ']gh'[YgW `cggYbž
UVYf'k]f'k c``Yb'i bgYfY'5i gghY``i b['hfchnXYa 'ni [Àb[`]W\
a UWXYb"'5b'i bgYfYf'HYW\bc`c[]YVUg]g'k ]fX'gh\bX][
\Yfi a [YVUghY`h'': Øf'U``Y'BYi []Yf][Yb'gc``Yb'k Y]hYfY
X][]hU`Y'5b[YVchY'ni f'JYfZØ[i b['[YghY``h'k YfXYb ž'gU[h
A i gYi a ggdfYW\Yf]b'\JbU'8ca UfUh]i g"'8][]hU`Y'9f\OZZbi b[
8]Y'5i gghY``i b[' <Yfa Ub'<"'HYf'A YYf' 'H]Yfdf\dUfUhcf'Ui g
@YmXYbqW\UZh 'flY]b'H]ddZY\`YfE'k ]fX'Ua '%\*"'/ Ua d\Y'`]d/



9fgh'5bZUb['Bcj Ya VYf'&\$&%'Yf\]Y`h'XUg'BUhi f\_i bXYa i gYi a 'XYb, "'GÀW\g]gW\Yb'A i gYi a gdfY]g'ZØf'gY]bY']bbcj Uh]j Yb'?cbnYdhY i bX'X][]hU`Yb'K Y[Y'XYf'JYfa]hhi b['jcb'A i gYi a g]b\U`hYb"K]Y [i h'Y]bY'UbU`c['Ui ZVYfY]hYhY'5i gghY``i b['\_i fnZf]gh]['X][]hU`]g]Yfh k YfXYb'\_Ubbž'a i gg'XUg'< Ui g'bi b'k À\fYbX'XYf'GW\`]Y» i b['bUW\XYf'7cfcbU!Bchj YfcfXbi b['a Y\f'VYk Y]gYbž'U`g'Yg'XYb JYfUbhk cfh`]W\Yb'`]YV']gh" 8 Ug'A i gYi a ']gh'[YgW\`cggYbž'UVYf'k]f k c``Yb'i bgYfY'5i gghY``i b['hfchnXYa'ni [Àb[`]W\'a UW\Yb"'5b i bgYfYf'HYW\bc`c[]YVUg]g'k]fX'gh\AbX]['\Yfi a [YVUghY`h": Øf'U``Y BYi []Yf][Yb'gc``Yb'k Y]hYfY'X][]hU`Y'5b[YVchY'ni f'JYfZØ[i b[ [YghY``h'k YfXYb ž'gU[h'A i gYi a ggdfYW\Yf]b'\JbU'8ca UfUh]i g"

# 8][]hU`Y 9fÒZZbi b[

8]Y'5i gghY``i b[' < Yfa Ub'< "'HYf'A YYf' 'H]YfdfÀdUfUhcf'Ui g
@YmXYbgW\UZh f[Y]b'H]ddZY\`YfŁ'k]fX'Ua '%\* "'8YnYa VYf'&\$&%'i a
%+'l\f'X][]hU`'dYf'@]j Y!, VYfhfU[i b[']a '\DhYfbYh'i bhYf'"'YfÒZZbYh'
k k k "bUhi f\_i bXYa i gYi a "'Y]dn][ "XY'gck]Y'Ui Z'XYb
A i gYi a g\_UbÀ`Yb'Ui Z': UWYVcc\_i bX'\DghU[fUa "'BYVYb
A i gYi a gX]fY\_hcf'8f"'Fcbbm'A U]\_'@YXYf'Ui W\'8ca]b]\_'9i `VYf[ž; Ughk]ggYbgW\UZhYf'XYg'BUhi f\]ghcf]gW\Yb'A i gYi a g'6Yf`]b'i bX
]bhYfbUh]cbU`'[YVi W\hYf'8\Z'6i W\Ui hcfZ'6chgW\UZhYf'j]Y`Yf
BUhi fgW\i hncf[Ub]gUh]cbYb'i bX'A cXYfUhcfZ'gck]Y'FYbÅ'8]YV]hnZ
XYf'U`g'U\_hi Y``Yf'H]YfdfÀdUfUhcf'Ua 'BUhi f\]ghcf]gW\Yb'A i gYi a
@Y]dn][\Z'[]Vh'9]bV`]W\_Y']b'gY]bY'5fVY]h"

### ? Ua YfUUi hc FcVVm

I a 'XUg'<Ui g']b'U``Yb'9W\_Yb'i bX'K ]b\_Y`b'Ui Z'XYa '<ca YgWfYYb gY\Yb'ni '\_ÒbbYbž'[]Vh'Yg'gY]h'\_i fnYa ' FcVVm' 'Y]b'?Ua YfUUi hcž XUg'dYf' ⊕hYfbYh'Ui g'XYf': YfbY'Xi fW\'X]Y'5i gghY``i b['bUj][]Yfh k YfXYb'\_Ubb"'9]bY'a cV]`Y'?Ua YfU']gh']bghU``]Yfhž'X]Y'Y]bYb 6Ygi W\'XYf'5i gghY``i b['Yfa Ò[`]W\h"'DØb\_h`]W\'ni f'9fÒZZbi b['gc`` XUg'bYi Y': cfa Uh'ZØf'U``Y'j YfZØ[ VUf'gY]b"

### $H\Ya\Yb^U\fa\]h^ij\]Y^Yb^i9j\Yb\hg$

a 'H\Ya Yb'U\f'[]Vh'Yg'ni XYa 'a Y\fYfY'H\Ya YbfY]\Ybž'ni a 6Y]gd]Y`'UV': YVfi Uf'&\$&&'?fmdhcncc`c[]Y'i bX'Gdi fYbgi W\Y'a ]h 7\f]gh]Ub'j cb'5ghYf'i bX'gY]bYb'; ÀghYbž'X]Y'g]W\'U`g'Z]\_h]j Y K ]ggYbgW\UZh`Yf'cXYf'j YfV`ØZZYbXY': ][i fYb'a ]h'A mh\Ybž'A cbghYfb i bX'A mghYf]Yb'Ui gY]bUbXYfgYhnYbž'cXYf'UV'5df]`'FYU`]hÀhYb VUi Yb'ni gUa a Yb'a ]h'XYf'<HK ?'@Y]dn]["'9]b[Y`UXYb'g]bX ?Øbgh`Yf'k ]Y'MUXY[Uf'5g]g]ž'Gc`j ]b'NUb\_`ž'7`Ya Ybg'A YmYfž'8f" A Uf\_'6YbYW\_Yž'7\f]gh]Ub'j cb'5ghYfž'DfcZ"'≈\UbbYg'J c[Y`ž'8f" 5bbYhhY'F]W\hYfž'8f"'Gi gUbbY'8i b\_Yf'i bX'UbXYfY"

 $\label{eq:continuous} $$J \ ca \ ``` \ "`V]g``\%+"`GYdhYa \ VYf`Z]bXYh``Ui \ WX`X]Y`) \ , \ "`$=$hYfbUh]cbU`Y $$5VY]hg\_cbZYfYbn`XYg`JYfVUbXYg`8Yi hgWXYf`H]YfdfAdUfUhcfYb ghUhh"`J"`]b`@Y]dn][ `ghUhh"$ 

· • n

#### 8 YhU]`q

6Ygi WXYb G]Y i bg Ui Z b!U[ "XY