

8]Y'VYghYb'5i gg]W\hgdi b_hY']a 'BYk : cfYgh'BUh]cbU\'DUf_

K]f Ybh\Ø``Yb X]Y VYghYb 5i gg]Wk hgdi b_hY i]a 'BYk ': cfYgh
BUh]cbU``DUf_']b' < Ua dg\]fYžXYa 'j]Y``Y]Wk h'Ua 'a Y]ghYb
i bhYfgWk AhnhYb DUf_'; fc > Vf]hUbb]Ybg K]f \ UVYb '_Øfn`]Wk
 Y]b' dUUf 'HU[Y 'XUa]h'j YfVfUWk hžXYb 'BYk ': cfYgh'ni
Yf_i bXYb'i bX 'XUVY]'X]Y 'VYghYb 'BYk ': cfYgh!: U\ffUXfci hYb
 ni 'YbhXYW_Yb"'Hfchn 'XYg 'gWk `YWk hYb 'K YhhYfg 'k A\fYbX
 i bgYfYf FY]gY 'fK]``_ca a Yb ']b '9b[`UbX '&\ UVYb 'k]f 'Yg
 [YgWk UZZhži bhYfk Y[g Y]b][Y [fc > Ufh][Y '5i gg]Wk hYb 'ni
 Z]bXYb/5i gV`]W_YžX]Y 'Ub 'Y]bYa 'Gca a YfhU['a]h'V`Ui Ya
<]a a Y`i bX 'GcbbYbgWk Y]b 'nk Y]ZY ``cg'i b[`Ui V`]Wk 'g]bX"'8Yf
BYk ': cfYgh'k i fXY '&\$\$) '[Y[fØbXYh'i bX ']gh'XYf 'nk Y]h'Øb[ghY
 BUh]cbU`dUf_'; fc > Vf]hUbb]Ybg"'9g'a U[']\a 'Ub 'XYb
 XfUa Uh]gWk Yb 'GYYb'i bX';]dZY`b'gY]bYf'VYfØ\a hYfYb
 ?c``Y[Yb'ZY\`Ybž'UVYf'gY]bY' / Ua d\Y``]d/

K]f 'Y b h\ Ø``Y b 'X]Y 'V Y g hY b '5 i gg] W\ hgd i b_hY ']a 'B Y k': cfYgh B Uh]c b U``DUf_']b' < Ua dg\]f Y ž 'X Y a 'j]Y ``Y] W\ h'Ua 'a Y]g hY b i b hY fg W\ À hnhY b'DUf_'; fc \Rightarrow V f]hUb b] Y b g

K]f'\UVYb'_Øfn`]W\'Y]b'dUUf'HU[Y'XUa]h'j YfVfUW\hž'XYb'BYk : cfYgh'ni 'Yf_i bXYb'i bX'XUVY]'X]Y'VYghYb'BYk :: cfYgh! : U\ffUXfci hYb'ni 'YbhXYW_Yb"'Hfchn'XYg'gW\'YW\hYb'K YhhYfg k À\fYbX'i bgYfYf'FY]gY'fK]``_ca a Yb']b'9b[`UbX'\'Ł'\UVYb'k]f'Yg [YgW\UZhž'i bhYfk Y[g'Y]b][Y'[fc\"Ufh][Y'5i gg]W\hYb'ni 'Z]bXYb/5i gV`]W_Yž'X]Y'Ub'Y]bYa 'Gca a YfhU['a]h'V`Ui Ya '<]a a Y`'i bX GcbbYbgW\Y]b'nk Y]ZY``cg'i b[`Ui V`]W\'g]bX"

8 Y f'B Y k': cfYgh'k i fXY'&\$\$) '[Y[fØbXYh'i bX']gh'XYf'nk Y]h'Øb[ghYBUh]cbU`dUf_'; fc» Vf]hUbb]Ybg"'9g'a U[']\a 'Ub'XYb'XfUa Uh]gW\YbGYYb'i bX';]dZY`b'gY]bYf'VYfØ\a hYfYb'?c``Y[Yb'ZY\`Ybž'UVYf

gY]bY'Ui g[YXY\bhYb'<Y]XYZÀW\Ybža U`Yf]gW\Yb'K À`XYf'i bX' "\$\$\$'k]`XYb'Dcbmg'a UW\Yb'XYb'DUf_'ni 'Y]bYa 'k ØfX][YbCi hXccf!FY]gYn]Y`"

I b[`@W_`]WXYfk Y]gY'a UWXhY'9b[`UbXg'i bVYfYWXYbVUfYg'K YhhYf X]Y'@UbXgWXUZh'hfchn'i bgYfYg'6Ygi WXg']a 'gdÀhYb': f@\`]b['ni Y]bYf'_`Y]bYb'< YfUi gZcfXYfi b["I a 'i bg'b]WXh'ni 'j YfY]hY`bž j Yfgi WXhYb'k]f'i bgYf'6YghYgž'i a 'X]Y'VYghYb'5i gg]WXhgdi b_hY']a BYk!: cfYgh!BUh]cbU`dUf_'ni 'Z]bXYb"

8]Y'VYghYb'5i gg]W\hgdi b_hY']a 'BYk': cfYgh BUh]cbU`'DUf_

K]f'\UVYb'X]Y'5i gg]W\hgdi b_hY'Ui Z'XYf'i bhYbghY\YbXYb'; cc[`Y!?UfhY'Y]b[YnY]W\bYh'i bX'X]Y'; DG!?ccfX]bUhYb'\]bni [YZØ[hž'i a ≜\bYb'X]Y'BUj][Uh]cb'ni 'XYb'Ni [Ub[gdi b_hYb'ni 'Yf'Y]W\hYfb"'8Yf BYk':cfYgh']gh']b'XYb'gØX`]W\Yb'HY]`Yb'XYg'DUf_g'Z'UW\Yfž'gcXUgg X]Y'a Y]ghYb'5i gg]W\hgdi b_hY']a 'fUi YfYb'BcfXk YghYb'ni 'Z]bXYb g]bX"'5``Y'j cb'i bg'Ui Z[YZØ\fhYb'5i gg]W\hgdi b_hY'j YfZØ[Yb'ØVYf_cghYb`cgY'DUf_d`ÀhnY'i bX'Y]bZUW\Yb'Ni [Ub['ni 'K UbXYf!'i bX FUXk Y[Yb"

%"'6i f`Ym!DUf d`Uhn

; DG!?ccfX]bUhYb.') \$..(- &- "(B'%..(%) \$"% K

'U`h1 6YghY'5i gg]W\hgdi b_hY']a 'BYk': cfYgh'BUh]cbU``DUf_
6i f`Ym 25h`Ug'/ '6cchg'9]b'k]`XYg'Dcbm'[fUgh']b'XYf'BÀ\Y'XYg
6i f`Ym!DUf_d`UhnYg

&"'7 Ugh`Y'<]``!; UggY

; DG!?ccfX]bUhYb.') \$..(- (&"- B $^{\circ}$ %..($^{\circ}$ \$%"% K

'U`h1 6YghY!5i gg]W\hgdi b_hY!]a !BYk!: cfYgh!BUh]cbU`dUf_ 25h`Ug / '6cchg'8]Y'5i gg]W\h'j ca 'GW\`cgg'<]``'@UbY']b'XYf'BÀ\Y'XYg 8cfZYg'6i f`Ym

' "GhfY]_dcghYb!DUf_d`Uhn

; DG!?ccfX]bUhYb.') \$..) % \$("\$ B'%..(' (%") K

'U`h1 6YghY!5i gg]Wkhgdi b_hY!]a !BYk!: cfYgh!BUh]cbU`!DUf_!D]W_Yh!
Dcgh 2 5h`Ug'/ '6cchg', VYf'D]W_Yh'Dcgh'n]Y\Yb'X]W_Y'K c`_Yb'ØVYf
XYb'<]a a Y`</pre>

("'5WfYg'8ckb'DUf_d`Uhn

; DG!?ccfX]bUhYb.')\$..)' %\$", B'%..'. + %)") K

'U`h1 6YghY!5i gg]W\hgdi b_hY!]a !BYk !: cfYgh|BUh]cbU`!DUf_!5WfYg! 8ck b!& 26]`X. 'BYk ': cfYgh'<c`]XUmg'5WfYg'8ck b'Ub'Y]bYa '_`UfYb HU['fk]f'g]bX'ni | Yf`Àgg][']bZcfa]Yfhž'XUgg'Yg'g]Y'[]Vh°Ł

) "K]'j YfYm!9] $bgWX`]Y*ib[gdUf_d`Uhn$

; DG!?ccfX]bUhYb.') \$..(, ' \$"% B'%...', &- "% K

*"'Hcha Ubb\Ø[Y`

; DG!?ccfX]bUhYb.') \$..) *)) "& B'%..(' '("\$ K

"U`h1 6YghY!5i gg]W\hgdi b_hY!]a !BYk !: cfYgh!BUh]cbU`dUf_! 8YUXa Ub!<]`` 25hUg'/ '6cchg'8YUXa Ub'<]```V]YhYh'Y]bYb'k Y]hYb i bX'k Y]hYb'6`]_'\@VYf'X]Y'<Y]XY`UbXg\\UZh'XYg'BYk': cfYgh

+"5g\`Ym!K Y[

; DG!?ccfX]bUhYb.') \$..) * &' "\$ B'%..((%\$"- K

"U`h1 6YghY'5i gg]W\hgdi b_hY']a 'BYk': cfYgh'BUh]cbU`'DUf_'5g\`Ym

K U`_ 25h`Ug'/ '6cchg'5g\`Ym'K U`_'V]YhYh'Y]bYb'\Yfj cffU[YbXYb Ni [Ub['ni 'K UbXYfk Y[Yb

, "'; $cXg\]^{T}fW_Yhd\Uhn$

; DG!?ccfX]bUhYb.') \$..) * \$) "\$ B'%..((') "(K

'U`h1 6YghY!5i gg]W\hgdi b_hY!]a !BYk!: cfYgh!BUh]cbU`dUf_!
; cXg\]``!7f]W_Yh 2 5h`Ug'/ '6cchg'; Y\Yb'G]Y'i a 'XUg'7f]W_YhZY`X
\Yfi a ži a 'ØVYf'XUg'HU`'ni 'gY\Ybž']b'XYa '8]hW\YbX'6fcc_
j Yf`Ài Zh

- "; cXg\]``!9]bgW\`i gg

; DG!?ccfX]bUhYb.') \$..) * ') "+ B'%..() \$\$"(K

'U`h1 6YghY!5i gg]Wkhgdi b_hY!]a !BYk!: cfYgh!BUh]cbU`dUf_!
; cXg\]``! \div Wcgi fY 25h`Ug / '6cchg'K]f'_Ua Yb'b]Wkh'Ub'X]YgYa
gWk ObYb'DZYfX'j cfVY]ž'VYj cf'XYf'<]a a Y`'Ui Z[]b['i bX'k]f']b
8YW_i b['[]b[Yb'

%\$".6i f[VYf[

; DG!?ccfX]bUhYb.') \$..) *) +") B'%..() ' \$"% K

'U`h1 6YghY'5i gg]Wkhgdi b_hY']a 'BYk': cfYgh'BUh]cbU``DUf_'7Ugh`Y <]`` 25h`Ug'/ '6cchg'8Yf'6`]W_'ØVYf'XYb': `i gg'5j cb']b' < Ua dg\]fY j cb'7Ugh`Y' <]``fb]Wkh'ni 'j Yfk YWkgY`b'a]h'XYf'7Ugh`Y' <]``@UbY']b XYf'BÀ\Y'j cb'6i f`YmŁ

6YghY 5i gg]W hgdi b_hY]a BYk : cfYgh BUh]cbU`DUf_. 8Ug K YgYbh`]W Y

K Ug. '9f_i bXYb'G]Y'X]Y'VYghYb'5i gg]W\hgdi b_hY']a 'BYk': cfYgh BUh]cbU``DUf_"

 $K\ c.\ K\]f^0VYfbUWAhYhYb^0]a^0WAUfa^0UbhYb^0K^0Umg]XY^07chhU[Yž^0XUg^0]$

j cb`XYb`bcW.`W.Ufa UbhYfYb`Hf]g\`i bX`\Ub`[YZØ\fh`k]fX"\8Ug
7chhU[Y`jYfZØ[h`ØVYf`gYW.g`YbhnØW_YbXY`N]a a Yfž`U``Y`a]h`K @5Bž
:`UW.V]`XZYfbgY\Yfž`Y][YbYa `6UXž`gi dYf`VYei Ya Yb`6YhhYb`i bX
[fc»Yb`:YbghYfbž`X]Y`j]Y``@]W.h`\YfY]b`UggYb"\8Ug`:Yf]Yb\Ui g
j YfZØ[h`Ui W.`ØVYf`_cghYb`cgY`DUf_d`AhnY`jcf`Cfh"\Acf[Ybg`k]fX
]a `Y`Y[UbhYb`GdY]gYgUU``Y]b`_Ògh`]W.Yg`fi bX`fY]W.\U`h][YgŁ
:fØ\ghØW_`gYfj]Yfhž`i bX`]b`XYf`@ci b[Y`ghY\Yb`kÀ\fYbX`\A\fYg
5i ZYbh\U`hg`HYYž`?UZZYY`i bX`\Ui g[Ya UW.hYf`?i W.Yb`ZØf`G]Y
VYfY]h"

6Y]'gW\ObYa 'K YhhYf``c\bh'Yg'g]W\ž'XUg'; Y`\AbXY'XYf' < ØhhY 'ni bi hnYbž'XUg'j cb'k i bXYfgW\ObYb'`]`U'; `mn]b]Yb'i a [YVYb']gh" BY\a Yb'G]Y'g]W\'NY]h'ZØf'Y]b'; Ygdf\AW\'a]h'Hf]g\'i bX'\=\Ubž'X]Y'Y]b ZUgn]b]YfYbXYg'@YVYb'U`g'?cW\'fHf]g\\ti bX'@]b]Ybd]`ch'f\\UbYb"

- 'U`h1 2

5h`Ug7 '6cchg

K Ubb. K]Y k]f k]ggYbž]gh [i hYg K YhhYf]b '9b [`UbX b]Y [UfUbh]Yfhž UVYf '\$ b] 'V]g '5i [i gh]gh c \bY 'Nk Y]ZY `X]Y 'hfc W_YbghY 'i bX 'k Àfa ghY NY]h XYg '\$J\fYg " '9g]gh 'YXc W. 'Ui W. '< c W. gU]gc b 'i bX 'X]Y J YfZØ [VUf_Y]h _ Obb hY 'Y]b 'Dfc V 'Ya 'XUfghY `Ybž]bgVYgc bXYfY k À\fYbX 'XYf 'GW i 'ZYf]Yb 'j c b '9bXY '\$ `] 'V]g '5i [i gh "'J cf 'X]YgYa <]bhYf [fi bX 'g]bX 'Ui W. 'X]Y 'BYVYbgU]gc bYb 'fbdf] `V]g 'A U] 'i bX GYd hYa VYf 'V]g 'C _hc VYf L Y]bY '[i hY 'NY]hž i a 'XYb 'BYk ': cf Ygh 'ni Yf i bXYb"

K]Y. K]f'\UVYb: U\ffÀXYf'j ca : cfYgh'@Y]gi fY'7mW]b['7YbhYf [Ya]YhYhž'XUg'ØVYf'Y]bY: `chhY'j cb: U\ffÀXYfb'j YfZØ[hž'XUfi bhYf HUbXYa gž'?]bXYf!'i bX'9`Y_hfcZU\ffÀXYf'gck]Y: U\ffUXUb\Ab[Yf ZØf'<i bXY'i bX'?]bXYf"'8]Y'i bhYb'Ub[Y[YVYbYb'DfY]gY'[Y`hYb'ZØf &('Ghi bXYb'i bX'VY]b\U`hYb'<Y`a Yž'Fi W_gUW_ž'Di a dYž'GWX`cggž K Yf_nYi [gUhn'i bX'Y]bYb'a cV]`Yb'9fgUhna YWXUb]_Yf"'G]Y\Y']\fY K YVg]hY'ZØf'ni qÀhn`]WXY'5i qfØqhi b[ž'DfY]qY'i bX'FUVUhhY"

DfYa]ia!5iZ\Àb[ib[ˈZØf	v %+ ž) \$
9fk UW gYbY	
&- Yf	v &\$
HUbXYa	v')
9`Y_hf]gW\Yg`: U\ffUX	v &-

 $G]Y'Z\emptyset \ fYb'UiWX'`c_U`Y'FY]gYZ\emptyset \ fYf'ibX'XYhU]``]YfhY'?UfhYb'fUiWX'b']\ fYa'Cb`]bY!G\ cd'Yf\À`h`]WXŁ''$

8 Yf'6 Ygi WX 'XYg'B Uh]cbU`dUf_g']gh'_cghYb`cg'i bX'Yg'[]Vh i bnÀ\`][Y'_cghYb`cgY'DUf_d`ÀhnY']a '[YgUa hYb'DUf_'a]h'Ni [Ub[ni '<i bXYfhYb'j cb'?]`ca YhYfb'K UbXYf!'i bX'FUXk Y[Yb"

Gci h\ 'K Ygh'HfU]bg'ZU\fYb'j cb'@cbXcb'K UhYf`cc'ni 'a Y\fYfYb [fc» Yb'6U\b\ÒZYb']b'XYf'BÀ\Y'XYg'BYk': cfYghž'XUfi bhYf Dcfhga ci h\ž'Gci h\ Ua dhcbž'6ci fbYa ci h\ 'i bX'Dcc`Y"'8]Y: U\fnY]hYb'`]Y[Yb']b'XYf'FY[Y`nk]gW\Yb'%!&ž)\"'K Y]hYfY GhUh]cbYb']bbYf\U`V'XYg'DUf_g'g]bX'5g\i fghž'6YUi`]Yi 'FcUXž 6fcW_Yb\i fghž'<]bhcb'5Xa]fU`ž'@ma]b[hcbž'BYk'A]`hcbž'Gk Um'i bX Hchhcb"

BUh]cbU``9IdfYgg`V]YhYh`Y]bY`FY]\Y`jcb`JYfV]bXib[Yb`jcb@cbXcb`ibX`GØXYb[`UbX`Ubž'X]Y`]b`@mbX\ifghž'@ma]b[hcb`ibXF]b[kccX`qck]Y`Ub`UbXYfYb`<U`hYghY``Yb`]a`BYk`:cfYgh`\U`hYb"

K]f`\]Y`hYb`i bg`ni `XYf`NY]h`]b`: fUb_fY]W\`Ui Zž`U`gc`bU\a Yb`k]f Y]bY: À\fY`j cb`Gh"`A U`c`]b`: fUb_fY]W\`bUW\`Dcfhga ci h\`]b ; fc»Vf]hUbb]Ybž`XYa `bÀW\gh[Y`Y[YbYb`7fcgg!7\UbbY`!<UZYb`ni a BYk : cfYghž') \$`_a `fl \$`A Y]`YbŁ'i bX`*) `_a `f(\\$`A Y]`YbŁ'j cb 6i f`Ym`YbhZYfbh"`6f]hhUbm: Yff]Yg`VYhfY]Vh`Y]bY`Fci hY`nk]gW\Yb`Gh" A U`c'i b X'Dcfhga ci h\"

'U`h1 2

@cbY`m'D`UbYh'9b[`UbX']gh'Y]b'i a ZUggYbXYf'FY]gYZØ\fYf'ZØf 9b[`UbXž'Y]bgW\`]Y»`]W\'XYg'BYk': cfYgh'BUh]cbU`'DUf_ž']XYU`'ZØf X]YYb][Ybž'X]Y'gckc\`'X]Y'k]W\h][ghYb'GY\YbgkØfX][_Y]hYb Yf_i bXYb'U`g'Ui W\'kYb][Yf'VYZU\fYbY'GhfU»Yb'kÀ\`Yb'a ÒW\hYb"

BYk: cfYgh'CG'9Id'cfYf'AUd']gh'X]Y'XYhU]``]YfhYghY'i bX'Ua Y]bZUW\ghYb'ni '`YgYbXY'? UfhY']a 'AU» ghUV'%.&) "\$\$\$"'9g'Ybh\À`h Hcif]ghYb]bZcfaUh]cbgdib_hYž'VY`]YVhY'GY\YbgkØfX][_Y]hYbž 5i gg]W\hgdib_hYž'GY\YbgkØfX][_Y]hYb'i bX'\DZcfaUh]cbYb'ni KY[YfYW\hYb"

@Y]hV]`X. 5h`Ug'/ 6cchg

•

8 YhU]`q

6Ygi WXYb G]Y i bg Ui Z Y]bY!fY]gY "XY