

# >Y`Ybh\_ YnÅg A chj 1Wj g`Yj Å



## A chj 1Wj g`Yj Å ! ? YnXÅg

UFUV \c`UbX  
; YUWHY`Yf

< j Uu cgž ZÁFZ] VĚa nYHž]ga YfYhYb`bÅj

; YUWHY`a Yj fci k

< j Uu cgž b ]`VĚa nYHž]ga YfYhYb`bÅj

· P ·

; YUWHY`Yfž a Yj fci k

< j Uu cgž VĚa nYHh bYj Y`Åg`bYa Y`]ga YfYhYb

; YUWHY`XLa Yg`Yb`YfYb

< j Uu cgž h`OW`VĚa nYHh

; YUWHY`XLa Yg`Yb`YfYb

< j Uu cgž VĚa nYHY`\_`bYj Y`Åg`bYa Y`HY`Yg`Yb`]ga YfYhYb

; YUWHY`Yf`>UbgYb

< j Uu cgž ZÁFZ] VĚa nYHž]ga YfhibÅj

; YUWHY`a Yj fci k`>UbgYb

< j Uu cgž b ]`VĚa nYHž`\`½Ugž]ga YfhibÅj

; YUWHY`a Yj fci k`>UbgYb

< j Uu cgž b ]`VĚa nYHž`Y[mYXØ`½`ĭ`ž]ga YfhibÅj

; YUWHY`a Yj fci k`>UbgYb

< j Uu cgž b ]`VĚa nYHž]ga YfhibÅj ž]ga YfYhYb`VgU`½]`½`Udch

6YgY`a YbYf`>UbgYb

? Yj ÅgVÁ`\\j Uu cgž a 1Ě`fÁ[ YW`ĭ`Hj`Ub`Ø`n`Yh`\_`UdVg`c`Uh

# >Y`Ybh\_YnÅg A chj 1Wj g`Yj Å



. . . . .  
.....  
.....

< ]YfV]^gc` ]MjHYf ]\_ 'bUUF`XYj UMH fYj Ub`""X]Yi ]b`""  
cd`""[ Ydi V]WYfX`YZH'

GHubXUFX`Zcfa i `UY[ mic`mb`½ ½g]U`La YnbY\_`U\]fXYhÅgÅhY[ mÖg]½ VUb j U[ ma U[ Uh]bVUb`½hUX

. . . . .  
.....

B UUF`Ub`Y]X]b[ j Ub i k j UMH fYcd`""gWf]Z`\_i`""

GHubXUFX`Zcfa i `UY[ mcb`]bY`\]fXYhYhi½ ½g]Uj ½Ugnc`½g\_cf

.....  
.....

B UUF`Ub`Y]X]b[ j Ub i k j UMH fY]b`""j Ub`""

GHubXUFX`Zcfa i `U`UbbU\_`Ya U[ mUf½g]U`Z`c[ m\c`'hU`½hUX`U'a Y[ \]fXYhYhi½ ½gh

.....  
.....  
.....

A Yh[ fchY]bhYfYggY`W`\_`XYj UMH fY[ YYnYb j ccf`XY  
dcg]hYj Ub`Yb`Yfj UfYb`""]b`XYX]hY`""j Ub`""

GHubXUFX`Zcfa i `UY[ mic`mb`½ ½g]U`Y`Ybh\_YnÅg\_cfZ`La Y`mYhY[ ma U[ Uh]bVUb j U[ m\Yh`UdVUb`½h½

. . . . .  
.....

; fUU[ `gc` ]MjHYf ]\_ 'bUUF`XYXccf`i`i`]h[ YgWfYj Yb  
j UMH fYZ`ca XU`""

GHubXUFX`Zcfa i `U`½ ½g]Y`Ybh\_YnÅg\_cf

. . . . .  
.....

=\_gc` ]MjHYf`bUUF`XYZ`bW]Yj Ub`""

GHubXUFX`Zcfa i `U`½ ½g]Y`Ybh\_YnÅg\_cf

. . . . .  
.....

Cd`X]ha ca Ybhk Yf`\_ ]\_ j ccf`""""A ]'b`k Yf`nUa` \XYb  
VYg]Ub`i`]h`""

B mjh`'a cbXUh`Åbh`Ugnb½½`U`Y`Yb`Y[ ]`Zc[ `U`\_cn½g] ½Udch`YÉ½g]U

# A chj 1Wj g`Yj Å !`¥fj YÅg

UFUV \c`UbX

# >Y Ybh\_YnÅg A chj 1Wj g`Yj Å`



..... =\_ 'Vb'nYf '[ YbhfYggYfX ]b'XnY'VUubžca XUh''''

5 bbU\_`Ua Y[ a U[ nUF1/2]1/2]Už\c[ mia ]ÅfignYfYtbÅX`Uh`UXcthia i b\_1/2

..... =\_ 'nci '[ fUU[ j ccf i 'k ]`Yb'k Yf\_Ybžca ''''

5 bbU\_`Ua Y[ a U[ nUF1/2]1/2]Už\c[ mia ]ÅfignYfYtbÅX`Uh`UXcthia i b\_1/2

..... A ]'b'ghf\_Y'di bHb'nj'b''''

5 ``Y[ ZcbhcjUW`hi `UXcbg]U]X`Yf1/2]U\_cf

'P ..... =\_ 'Xyb\_`XUh''''a ]'b'rk U\_\_Y'di bHb'nj'b''''A Uf`\_`k Yf\_ YfUub`X]h[ W]YX#XnY[ W]YXyb`h'j YfVYhfYb''

" ..... 'P

I HU1/2]U[ mYb[ YgÅ[ Y]XFYžXY`UbbU\_`a i HU1/2]Už\c[ mignYfYtbÅ`YnY\_Yb`UhfØYh\_Yb`ZY^`Xb]

..... =\_ 'Vb'[ YgW`\_hj ccf`XnY`Z` bW]Yžca XUh''''

5 bbU\_`Yf1/2]Už\c[ mia ]h`j U[ m'f`Y`Ybh\_Yn`Ua i b\_1/2

..... C ZjWccb`\_`[ Yb`Yfj Uf]b[ `W]b`''''ž`W`\_`k Y`''''

5 a ]\_cf`a Å[ `bYa`Xc`[ cnf1/2`Uh`UXcthihfØYhYbžXY`gnYfYtbÅX`VYa i HU]b]`Ua`1/2]hfØYh\_Yb`gnYfnYthiHdUgnHU`UH]XUh

'P ..... A ]'b'dfcZYgg]cbYY`\_k U]h]hYb# UfX][ `YXyb WffYgdcbXYfYb`a YhXYj YfY]gYb j Ub i k `VXF]Z'

5 bbU\_`U`Yf1/2]Už\c[ mia ]`nYb`\_`ÅdYggÅ[ Y`\_hYgnbY`\_U`\_Ua Ugg]1/2]Ua i b\_1/2

..... H]Xybga ]'b'h`X`Ug''''ž`W`\_`a ]'b`\_Ybb]gj Ub'''' j YfVYhfX# Yf[ fcc# ]h`WfY]X''

9[ miUXcthihfØYhYb`gnYfnYthiHdUgnHU`UhVYa i HU1/2]U`Åg`U`\_`ÅdYggÅ[ `Ö^`\_`ÅdYggÅ[ Y`\_#i X1/2]gnYfnÅgÅfY

..... A ]'b j U`\_`W]YX]g''''

5 bbU\_`Yf1/2]Už\c[ mia Yn]`\_`hfØYhYb`j`UbbU\_`U`Y[ bU[ nCV`YfYXa`ÅbmY]XžHdUgnHU`UH]X

# >Y Ybh\_ YnÅg A chj 1Wj g`Yj Å`



H]`XYbga ]'b'k Yf\_ `V]`^''''`Vyb ]\_ `nYYf `WY\_k ULa [ Yk cfXYb ]b`''''

9[ mUXcIhHYfØ YHYb`gnYfnYthiUdUgnHU UhVYa i HUhgU`Åg`U`\_`ÅdYggÅ[ `Ö^`\_`ÅdYggÅ[ Y\_#i X1/2`gnYfnÅgÅfY

Cc\_ ]b`g`fYggj c`Y`g`h UH]Ygj Yf`Yg]\_ `bU k\_`Yi f][`Y]X b]Yhi ]h`Yhcc["8Ufca `Vyb ]\_ `V]`ncbXYf [ YgW]\_`hin]'b j ccf`XY`Y]gYb j Ub`''''

5 bbU\_`Ya U[ mUf1/2`gnU`Z`c[ ma ]Åfn`YbbÅ`'Å` `Un'1/2`1/2`fUU`\_cf1/2`V]'a i b\_`UdUgnHU`UH]X`U`Ud`Yb

Cc\_ `cbXYf`Xfi \_`\_`Ub ]\_ `c[ Y\_`k U]H]`ggg`UbXUfXYb \UbX`Uj`Yb"

5 bbU\_`ÅfnÅ`\_`Y`H`ÅgÅfYz`c[ m\_`ÅdYgj U[ ma U[ Uj][`ÅbnY\_`YhiH`a UgnH`i`\_`ÖfbrnYnYHYb`Xc`[`cnb]

9b`XUf`a`Y`nci ]\_`XY`a`c[Y]^`Y]X`Y`W`Yb`a ]'b ]bHfYggYga`YhX`Yn`Z`b`M]Y`H`W`a`V]bYfYb"

5 bbU\_`VYa i HUhgU`Z`c[ mgnYa`Å`mYgYb`]g`bU[`ncb`ÅfXY`\_`Xgn`U`a`i`b\_`U]f`Yb`h

=\_ ]bHfYggYf`a ]`^`V]`ncbXYf`j`ccf`XYn`Y`Z`b`M]Y`Yb ]\_`nci XY\_`Ubgca`'a ]'b\_`Ybb]g`g`Ja`Yb`a`Yhi`'H`\_`i`bbYb j`Yf[`f`ch`b`n`YYf`k`UfXYfYb"

5 bbU\_`VYa i HUhgU`Z`c[ mgnYa`Å`mYgYb`]g`bU[`ncb`ÅfXY`\_`Xgn`U`a`i`b\_`U]f`Yb`h

NcUgi ]b`a ]'b`W]'\_`i`bh]Ybž`\_`ca`Yb`a ]'b`Yf`j`Uf]b[`Yb a ]'b`j`UfX][`Y`XYb`cj`Yf`Yb`a`Yh`XY`j`Yf`Y]g`Yb`j`Ub`XYn`Y`Z`b`M]Y"

5 n`Öb`Å`Yf`U`ncX`\_]`Ub[`g`Ö`ncn`1/2`U`\_`cf`Åg`UbbU\_`ÅfnÅ`\_`Y`H`ÅgÅfYz`c[ ma`Ybbn]fY]'`YbY`\_`cnn`1/2`Yn`U`a`i`b\_`U

>Y`Ybh\_YnÅg  
A chj 1Wj g`Yj Å`



A ]'b \i ]X][ YVUub 'Ug''''V]YXhia ]^XY[ Y Y[ Yb\ YX ]b 'Yb  
j YY Y]gYbXY'k Yf\_ca [ Yj ]b[ 'H'k Yf\_Ybžk UUF 'Yb'bU' k Y  
gJa Ybk Yf\_]b[ 'a Yhia ]'b Wc`Y[ U%gYgYbh]YY ]gj ccf \Yh  
\U'Ybj Ub XYUX ]bYg'

5 bbU ``Yf'g]U\c[ ma ]`mYb'hi X'gU'Yf'ch'2'Y 'U'Y'Yb`Y[ ]'a i b\_1X'gcf'Yb

>Y`Ybh\_YnÅg

A chj 1Wj g`Yj Å`



B Ughia ]'b j Yf Ubhk ccfXY ]^ \ XYb 'Ug'''' \ W ]\_ 'cc\_ j UfX][ \ XYb ]b'''' cbhk ]\_ YX''

9l hfU\_ ÅdYgÅgY\_ #i X]g`YÉf]gUzLa ]\_ YhU`Y`Yb`Y[ ]' ½ ]gcXcb`\_ YfYgnØ` gU`Åfch½`Y` Åg`La ]\_ `bYa `Z`hÅhYbØ`ZØ[ [ bY\_ ÖggY`gncfcgUb`U`Zc[ `U`cn]g]`dcnÉVj`XXU

A chj 1Wj g`Yj Å`! ? ÅdYggÅ[ Y\_#\_ ÅgngÅ[ Y\_

UfUW \c`UbX

'''']ga ]'b`a cYXYfHUW`Yb`XUf bUghjgdfYY\_ ]\_ 'cc\_ ''''

5 n`Ubntubn`Yj`YX`Åg`Lh`Y[ mÅV`Zc`mÅ`cbmtub`VYgnÅ`hibn`Yj`Y\_`YÉf]gU

= `VgW ]\_ 'cj`Yf`Yb`i` ]hgY`YbXYVW`Yf`g]b[ ]`Ub`''''

B`Ya` `Ubntubn`Yj` ]z`XY`a`U[`Ug`gn]`bhYb`VYgnÅ`hibn`Yj`Y\_`YÉf]gU

= `VgW ]\_ 'cj`Yf`Yb`[`cYXYVW`Yf`g]b[ ]`Ub`''''

B`Ya` `Ubntubn`Yj` ]`Åg`\_`ÖnÅdgn]`bhYb`VYgnÅ`hibn`Yj`Y\_`YÉf]gU

= `W`''''`UfYb`Yfj`Uf]b[ `Ug`''''

9[ m]UXc]h]Ø`Yh]`hYfØ`YhYb`gnYfnYh]h]Ud]Ugn]U`U]X`YÉf]gU

= `VgW ]\_ 'cj`Yf`[`cYXY`\_`Ybb]`gj`Ub`''''

Gn]Å`Éi`[`ÅdYg`gncZj`Yf`]ga`YfYH`\_`VYa`i`h]h]gU

= `XYb`\_`XUh ]\_ 'cj`Yf`XY`[`YgW ]\_`hY`Wta`V]b]h]Y`VYgW ]\_`j`Ub`''''`Yb`''''

5 bbU`\_`YÉf]gU`Uz` \c[`mia`Yb]m]fY`\_]Y[`mYbgÖ`nnc]h]U`\_`U`\_`ÅdYggÅ[`Y]X

I ]hgY`YbXYWta`a`i`b]W]h]Yj`Yj`UfX][` \XYb

=bZcfa`Wj`\_`a`Y[`cgn]h]gU`Åg`V]ncbncgXc`[`c`\_`Y`a`U[`ntUf]h]gU`\_`c`\_`Å[`½`bU`\_`

5 bU`nt]gW`XYb`\_`j`Yfa`c[`Yb

6 ]ncbncgXc`[`c`\_`a`Y[`Åf`ÅgY`Åg[`ncfg`Åg` \`U`hÅ`cbm]Y`a`U[`ntUf]h]gU

# >Y Ybh\_ YnÅg A chj 1Wj g`Yj Å`



@c[ ]gW`XYb\_j Yfa c[ Yb

5 n`Y\_ ÅdnY ÅgY\_#ChYH\_`dfVWln`Åg`f` `1/2[ cbXc`ha I Xcbj Uİ `gnYf\_ YgnhÅgYž`CggYfU\_ 1/2U

5bU n[ ]gWYj UFX][ \XYb

? ÅngÅ[ `UXc`[ c\_`fÅgn`YHjg`ÅfHÅ\_Y ÅgÅFY

; cYXY]bhYfa YbgY`^\_Yj UFX][ \XYb

5 `c`Å[ 1/2\_U`j Uİ `UhÅ\_cbmY[ mØha \_ØXÅg`Åg`ca a i b]\_1/2Yj fUj Uİ `ÅngÅ[

CbXYf\UbXY]b[ g UFX][ \XYb

A 1/2j 1/2Uhc\_\_U`j Uİ `UhÅ\_cbmØh`YH`Åg]`\_ÅngÅ[ `

DfYgYbHh]Yj UFX][ \XYb

5 `ÅngÅ[ ž\c[ migc\_`Ya VYf`Y` hri\_ÅdYg\UhÅ\_cbnub`Y` Uxb]`Uh`Ch`YH]h

## A chj 1Wj g`Yj Å`! @Yn1/21/2

UFUW \c`UbX

=\_`Vb`nYf`[ Ya chj YfX`Yb`\_ ]j Yf`Yi [ `a`Y`cd`XY`  
j`YY`n]`X][`Y`k`Yf`\_rUa` \XYb`X]Y`Yb`ž` bW]YV]bbYb`i`k`  
VYxf]`Za` ]^nci`XYb`V]YXYb`"

@Yn1/21/2 1/2`a` Y[ ]ga` ÅH`j` Yž\c[` mia` Ybbm]fY`gnYfYbÅ`\_Uj` 1/2`U`UbU`\_`Xc`[` cnb]`

=\_`n]YXYb]Yi`k`YfU`\_Yb`#XYnY`b]Yi`k`Y`ž` bW]YUgYYb`  
]bhYfYgd]bhY`i` ]hXU[ ]b[ žk`Uf`\_ ]`bUf`i` ]h]`^`"

@Yn1/21/2 1/2`a` Y[ ]ga` ÅH`j` Yž\c[` mia` Ybbm]fY`gnYfYbÅ`\_Uj` 1/2`U`UbU`\_`Xc`[` cnb]`

; fUU[ `nci` \_ ]j` YfXYfY`XYH]`gj` Ub`XYnY`ž` bW]Y]b`Yb`  
dYfg`ccb`]^`[`YgdY`\_`a`Yhi` `k]`Yb`VYgdY`\_`Yb`"

@Yn1/21/2 1/2`ZY`j` ]`UbHb]`Y[`m`Y`YhgÅ[`Yg]`bhYf`Ch`

>Y`Ybh\_YnÅg  
A chj 1Wj g`Yj Å`



6]Yj cY[Xj ]bXhi `a ]'b Wff]W`i a j ]HUY#M"

GHubXUFX`Zcfa i `U`UbbU\_`YF`g]lUz`c[ miU'7J `U`WdUrc`a 1bmVUb`j Ub

Cdj YfncY\_`Ub`\_L`i `a ]'b fYZfYbh]Ygj Ub """"hcYgi fYb"

GHubXUFX`Zcfa i `U`UffUz`c[ mibr]rc]hij U[ miFYZYfYbV]1/2`UX1/2]lU

F YZYfYbh]Ygj\_i bbYb`k cfXYb`Uub[ Yj fUU[X`V]^""

5 bbU\_`YF`g]lUz`c[ mih Xgn`cnb]`fYZfYbV]1/2]biÅgž`c[ m\_]h`\_YfYggYbY\_`ÅfhY

J ccf`Yb`gc``]M]H]Y[ YgdfY\_`Vb`\_`VgW`\_`VUf`cd""

5 bbU\_`U`h` Xca 1/2]`UX1/2]lUz`c[ mignUMUX`j U[ miY[ mi]bhYf`ÖFU

6YXUb\_hj ccf`i`k`h`X`Yb`a`cY]H"; fUU[ `nci`\_`\_`\_`a` ]'b  
[ YgW`\_`h`Y]Xj ccf`X`Yn`Y`Z`bW]Y]b`Yb`[ YgdfY\_`bUXYf  
k ]`Yb`hcY]WHYb"l`\_`i` bhia ]^VYfY`\_`Yb`j ]U""

5 `dfYZfY1/2]h`Y`Å`Yh` gÅ[ Y\_`a` Y[ UX1/2]1/2]Åg`U`Y`Ybh\_YnÅg`1/2]b`Ån`Åg`Å`Å`fia` Y[ \_`Ògn`Òb`ÅgY\_`cf`\_`Ugnb1/2]lUrcg

A Yhj f]YbXY]^\_Y[ fcYřž

< ]j Uu`cgžVřa` nYthbYj` Y`]ga` YfYhYb

A Yhj f]YbXY]^\_Y[ fcYřž

< ]j Uu`cgžgn`Å`Yg\_`ÖFVyb`\_`Ugnb1/2]ž]ga` YfhiVřa` nYth

< cc[ UWHYbXž

< ]j Uu`cgžbYa` `kÖ` `Y`HYf`YXlž]ga` YfhiVřa` nYth



>Y`Ybh\_YnÅg  
A chj 1Wj g`Yj Å`



·P

A YhXYWgY[f cYHbž

BYa `lj Uu cgžØn`YhjdUfbYfY\_`\_ÖnÖhžU\_]`hY[ Yn XbY\_

---