

# >Y`Ybh\_YnÅg A chj 1Wj g`Yj Å`



## A chj 1Wj g`Yj Å`!`? YnXÅg

X1b  
? ÅfY`<f`ž  
< ]j Uu cgž ZÅfZ] VĚa nYhž]ga YfYhYb`bÅj

VgΛ  
J 1/2YbU`dUbYž

? ÅfY: fi "ž  
< ]j Uu cgžb ] VĚa nYhž]ga YfYhYb`bÅj

J 1/2Yb1/2dUbÉž

? ÅfY`<f`# fi "ž  
< ]j Uu cgžVĚa nYhbyj Y`ÅgbYa Y ]ga YfYhYb

J 1/2YbU`dUbY`#J 1/2Yb1/2dUbÉž

? ÅfY`<f`# fi "ž  
< ]j Uu cgžhÖW`VĚa nYh

8cVfU`XYbž

Hj` \j Ya `XYhY`Ub\_ca a Yfž  
< ]j Uu cgžVĚa nYhY`\_byj Y`ÅgbYa Y`hY`YgYb ]ga YfYhYb

J Ya `nU]bhYfYgaj UbĚa `gfUb1/a ž

? ÅfY`<f`Ga ]hž  
< ]j Uu cgž ZÅfZ] VĚa nYhž]ga YfhibÅj

J 1/2YbU`dUbY`Ga ]hž

? ÅfY: fi "Ga ]hž  
< ]j Uu cgžb ] VĚa nYhž` \ 1/2Ugž]ga YfhibÅj

J 1/2Yb1/2dUbÉGa ]h cj 1/2

? ÅfY: f\_"Ga ]hž  
< ]j Uu cgžb ] VĚa nYhžY[ mYXØ 1/2 ě ž]ga YfhibÅj

J 1/2Yb1/2gYébc`Ga ]h cj 1/2

? ÅfY: f"Ga ]hž  
< ]j Uu cgžb ] VĚa nYhž]ga YfhibÅj ž]ga YfYhYb`VgU 1/2] 1/2 Udch

J 1/2Yb1/2dUbÉGa ]h cj 1/2

? ÅfY`>c\b`Ga ]hž  
? Yj ÅgVÅ` ]j Uu cgž a 1/2 fÅ[ YWV` ĤUj Ub`Øn`Yh`\_UdVg`Uh

A ]`Û>c\bY`Ga ]hž

>Y[ `Ĉbg\_Yf`UhgĈ[ Y`g]` ]b[ Yb`gca """"gca `=cdg`c[ ]""""  
XYb""""  
GhUbXUFX`Zcfa i `UY[ mic`mub`1/2 1/2gfUĚUa Y`nbY`\_U` ]fXYhYhY[ mĚg] 1/2 VUb j U[ mia U[ Uh]bVUb` 1/2hUX

7 \h` fUĚ`VnW`gYi W1/2hYhc`bU`dfUWj bÉdcn]VJ`""ž`\_hYf 1/2  
VmU]bnYf`cj 1/2Uj """"XbY""""

>Y[ `g\_f]j Yf`gca `g Uf`dÁ`YfYg`cVcdgU[ `cdg`ÁYhdÁ""""  
GhUbXUFX`Zcfa i `UY[ mcb` ]bY` \ ]fXYhYhY 1/2 1/2gfUj 1/2Ugnc` 1/2cf

DÉ] J 1/a `c\`YXb÷]bnYf 1/a `nj Y Y`b÷bU`XbY""



>Y Ybh\_ YnÅg

A chj 1Wj g`Yj Å



GYj ca `Y[ ]\_Y\UF`hX`][ YfY`YfZUF]b[ ]`""z\UF`Y[ \UzH`""

=\_Xm`bYa 1a `d YXWcrEn\_i Ybcg]j ""za ÷fUL`gYa ""

5a ]\_cf`a Å[ `bYa `Xc`[ cnh1/2`Uh`UXchlhiYfØ`YHbž`XY`gnYfYbÅX`VYa i`hUhb]`U`a 1g`hYfØ`YH`\_Yb`gnYfnYthiUdUgnU`U`U]XU`h

A ]bY`dfcZYgg]cbY`Y`\_j U]Z]\_U]cbYf#Å`fX][ \YXYf j ]f`Yf`h` `Uhj Å`fY`dUggYbXY`h` `YfYgj ]f`\_gca \YXg \_fUj ""

A c`Y`dfcZYgbÉ`\_j U]Z]\_UW`#gW`cdbcg]`gY`nXU`ÉV`UhXcV Y \cXÉ`\_dc UXUj \_ a ] U Égdc`Yébcg]j ""

5 bbU`\_U`YÉf1g]1Uz`c[ ma ]`mYb`\_ÅdYggÅ[ Y`\_hYgnbY`\_U`\_U`a Ugg]1U`a i b\_1U

=`ÖVhiUz`a ]b`hX`gca """"z`ZcfVYXfYXY`Y[ #Z`Ya a YXY Y[ #Zcf`Åb[ YXY`Y[ #a ]bj ]Xyb`ca ""

B`U`dcn]V]""`gYa `g]`n`Yd ]fUL`j #`gYa i X÷`U`fUL`dc`\_fc`\_mj # fcn É ]U`g Å`rbUcg]j ""

9[ m]UXchlhiYfØ`YHb`gnYfnYthiUdUgnU`h`VYa i`hU]1g]U`Åg]U`\_ÅdYggÅ[ `Ö`\_ÅdYggÅ[ Y`\_#i X1g]gnYfnÅgÅfY

A ]hY`\_gdYftrca fÅXY`Yf`""

A c`Y`cV`UgicXVcfbUW`\_nbUcgÉ`Y`""

5 bbU`\_`YÉf1g]1Uz`c[ ma Y`nj`\_`hYfØ`YHb`j UbbU`\_U`Y[ bU[ nēV`YfYXa ÅbmY]Xž`hUdUgnU`U`U]X

A Ybg`Y[ `UFVY`XYXY`\cg`""6`Yj `Y[ `a Y[ Yh \_j U]Z]WfYh]`""

D ]`df`1W]bU`""`gYa `nÉg`\_U`fUL`\_ca dYHbW]j ""

9[ m]UXchlhiYfØ`YHb`gnYfnYthiUdUgnU`h`VYa i`hU]1g]U`Åg]U`\_ÅdYggÅ[ `Ö`\_ÅdYggÅ[ Y`\_#i X1g]gnYfnÅgÅfY

GYj `bÅf`Y[ `UFVY`XYf`Yh\`Ö`hiYa dcž`Zcf`gÅ`a Yf`Y[ ]\_Y`bÖU`h[ \YX`c[ ] ]`XYfZcf`]gÅ`fXY`Yg`YX`j Å`fY Y[ YbYh]` `XY`\_fUj `XYf`Yf`Zcf`hU`UFVY`XY`gca ""

=\_Xm`df`UW`YH`j Yj ngc`\_Å`fnW`cg]ž`YX `Y ]hÅ bY`nUbYXV`1/2`Uhid Ygbcg]ž`U`df`chc`VmVmcj` \cXbÅ`\_j ] XUbÅ`\_dc UXUj \_`m`df`UW]j`h`\_U`\_c`""

5 bbU`\_Y`a U[ m]Uf1g]1Uz`c[ ma ]Åf`h`Y`bbÅ`\_`f` `Uh`1/2`1g]U`U`\_cf`1W]`a i b`\_U`hUdUgnU`U`U]X`U`U`d`1/2

GYj `i`bXYf`dfYg`\_Ub`Y[ `cdfYh`c`XY`\`Ö`Y`g]UbXUfXYf`

8c`\_1/2]]`dcX`h`U`\_Ya `i`Xf` Yh] ngc`\_Å`g]UbXUfX`m]g`Å`df`1W`

5 bbU`\_ÅfnÅ`\_Y`hY`ÅgÅfYž`c[ m`\_ÅdYgj U[ ma U[ U]g][ ÅbmY`\_Yh]1/2` Ugn]i`\_`Ö`fomYnYHb`Xc`[ cnb]

>Y[ ] ]`XYfZcf`\_Uj Y`a i` ][ \YXYX`Zcf`Uh`\_ca V]bYfY a ]bY]b`hYfYggYf`a YX`XYbbY`UbVf]b[ Y`gY`

B`U`hÅ`c`dcn]V]VnW`a ÷`a`c`bcg]gdc`]h]g`Å`n`1/2`a`m]g]h`c`h`c`df`UW`

5 bbU`\_VYa i`hU]1g]1Uz`c[ m]gnYa`\_Å`nYgYb`]g]bU[ nēb`\_ÅfXY`\_`Xgn`U`a i b`\_U]f`1/2`h

>Y[ \UF`Yb`\_j ] ][ ]b`hYfYggY`]`""c[ `Y[ ] ]`Y`gÅ`hY`df]g dÅ`UhZÅ`a i` ][ \YXYb`#`W`UbWb`Zcf`Uhi Xj ]XY`a ]b j ]XYb`j YX`UF`VY`XY`Zcf`Yf`

A`1/2`j`Y`\_U`n`1/2`Ya`c`""`U`cW`i`]`a`c`bcg]#`d`ÉY`]h`c`h` fcn É ]h]g`\_Å`rbUcg]j`b`U`hÅ`c`dcn]V]`

5 bbU`\_VYa i`hU]1g]1Uz`c[ m]gnYa`\_Å`nYgYb`]g]bU[ nēb`\_ÅfXY`\_`Xgn`U`a i b`\_U]f`1/2`h

Gca`Xi`\_Ub`gY`Z`U`a ]h] YX`U[ hY`7`J`ž`a`U`W`Yf`a ]bY YfZUF]b[ Yf`c[ ]\_j U]Z]\_U]cbYf`XYbbY`g]`]b[ g`\_fUj ""

>U`\_a`\_YH`j ]X`-`h`n`i`Å`c`d`]`c`YbÅ`c`\_ ]j`chcd]g]ž`a`c`Y`n`\_i`Ybcg]j`\_U`\_j`U]Z]\_UW`cXdcj`ÉXU`Édc`UXUj`\_`a`XUbÅ`df`UW]j`bÉdcn]V`

5 n`ÖbÅ`Y`hU`ncX`\_ ]\Ub[ gÖ`nēn]1g]U`\_cf`Åg]UbbU`\_ÅfnÅ`\_Y`hY`ÅgÅfYž`c[ ma Ybbn]fY`]`YbY`\`cn]1/2`Yn`U`a i b`\_U

# A chj 1Wj g`Yj Å

A ]b'bi j ÅfYbXY'g]`b[ 'gca ""'Zcf""\Uf'[ ]j Yha ][  
a i ][ \XYyb 'Zcf'UhUFVY'XY' ]Yh\ÔhHYa dcž  
hYLa a ] 'Ö\j cf'XYhYf'YggYbhY'hUhj ÅfY' ]g'ubX'h'`'Uh  
UFVY'XY'hÅ'ha YX'a ]bY'\_c`Y[ UYf'Zcf'UhbÅ'Yb  
XYUX' ]bY"

A c`Y`U`\_h 1zbÉdcn]W`'U`\_c`""dfc`""a ]'dcg\_nhU'd ÉY ]hcg  
dfUWtj Uhj 'b1ÉcébÅa 'hÙa cj Åa 'dfcgh YXÉ`\_XY`Y  
bYnVntb÷'bi hbÅ'ÖhW'gdc'i dfUWtj Uhig'g Ìa ]'\_c`Y[ nžUWm  
Vmngd'b÷bmj 'YWbntYfa Ébmj éUg'

5 bbU\_`YÉf'g]Uz\c[ mia ]`nyb'hi X1g]U'f'ch12'Y`U`Y`Yb`Y[ ]'a i b\_1X'gcf1b

I Xcj Yf'a ]bY'Ubgj Ufgca fÅXYf'gca ""'z\Uf`Y[ 'c[ gÁ  
i Xj ]\_`Yh`""ZÅfX][ \XYXf"

? fca ÷'g ÌW'ncXdcj ÷XbcgÉ'U`\_c`""^gYa 'g]`hU`\_Åcg c`  
Xcj YXbcg]`'U`\_c`""

9i hfU\_`ÅdYg'fÅg`\_#i X1g]`YÉf'g]UzLa ]\_YhU`Y`Yb`Y[ ]'12'1g'cXcb`\_YfYgn'g'U'f'ch12'Y`Åg'La ]\_`bYa 'Z'`hÅhYbØ`ZØ[ bY\_  
ÖggY'gncfcgUb`U`Zc[ `U`\_cn1g]`dcnÉVj`XXU

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

X1b

VgA

A ]ha cXYfga Å`Yf`""za Yb`Y[ ]\_`Ub'c[ gÁ'gbU`\_Y`""

A `^fcXbU`'Uhm`\_Y`""zUY'a c\i 'hU`\_Åa`'i j ]h`""

5 n`UbntubnY'j YX'Åg'UhY[ nÅV'Zc`mÅ`cbntub`VYgnÅ'hbnY'j Y\_`YÉf'g]U

>Y[ `fÅXYf`ZfYa fU[ YbXY'cj Yf`""

A 1a j ÌUcfbci `rbUcgf`""

B Ya `UbntubnY'j ]zXY'a U[ Uj'gn]bhYb`VYgnÅ'hbnY'j Y\_`YÉf'g]U

>Y[ `Uf`Yb`z b[ YfYbXY'j ]XYb'ca`""

A 1a `rbUcgf`""

B Ya `UbntubnY'j ]`Åg`\_ÖnÅdgn]bhYb`VYgnÅ'hbnY'j Y\_`YÉf'g]U

>Y[ `Uf`""`Åfg`YfZUf]b[ ]bXYbZcf`""

A 1a ""'fc`\_n#Yhin\_i`YbcgÉ'n'df1W`""

9[ m\UxchhÖh`Yh]`hYfØ`YhYb`'gnYfnYhthUdUgnhU`Uhu]X`YÉf'g]U

>Y[ `Yf`Yb`YfZUfYb`Vfi [ Yf`UZ`""

>gYa `dc`\_fcé]`Ui` ]j UY`\_dfc[ fLa`'\_U`\_c`""

Gn1a Éi [ ÅdYg'gncZj Yf']ga YfYH`\_`Y'a i hU'g]U

>Y[ `a`YbYf`Uh`Y[ `Wg]XXYf`XYb'f][ h[ Y`\_ca V]bUh]cb  
UZ`""c[`""

J ÷ Éa ž`YXc`\_cbUY`\_ca V]bi`^`""U`""

5 bbU\_`YÉf'g]Uz\c[ mia Ybmn]fY`\_]Y[ mYbgÖ`ncnchU`\_U`\_ÅdYggÅ[ Y]X

: fYa fU[ YbXY`\_ca a i b]\_Uh]cbgYj bYf

J ÌUcfbÅ`\_ca i b]\_UÉbÉgWcdcbcgj

÷Zcfa 1Wj`\_`a Y[ cgnh'g]U'ÅgV]ncbnægXc`[ c`\_`Y'a U[ nUf'1a1g]U`\_c`\_Å[ 12bU`\_

8YXi`\_hj`Uf[ i a YbUh]cb

8YXi`\_W

6]ncbnægXc`[ c`\_`a Y[ Åf'hÅg`\_Åg[ nœfg`Åg`UhÅ`cbmY'a U[ nUf'1a1g]U

# >Y Ybh\_ YnÅg A chj 1Wj g`Yj Å`



@c[ ]g\_ hÅb\_b]b[

@c[ ]WÅ'a m`YbÉ

5 n`Y\_ ÅdnY ÅgY\_ #ChYHY\_ dfYVhÅg`Å` 1Wj cbXc`hia Ĩ Xcbj Uĭ `gnYf\_YgnhÅgYž`ÖggnYfU\_ 1/2U

5 bU mĭ]g\_Y`Yj bYf

5 bU mĭ]WÅ'gWcdbcgĭ]

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

; cXY`]bhYfdYfgcbY`Yj bYf

8cVfÅ`]bhYfdYfgcb1/2bÉgWcdbcgĭ]

5 `c`Å[ 1/2\_U`j Uĭ `UhÅ\_cbmY[ mØha \_ÖÅg`Åg`ca a i b]\_Wj fUj Uĭ `ÅngÅ[

: cf\UbX`]b[ g`Yj bYf

J mYXb1/2UWĭ]gWcdbcgĭ]

A 1/2j 1/2Uhc\_\_U`j Uĭ `UhÅ\_cbmØh`YHY`Ågĭ`\_ÅngÅ[ `

DfÅ`gYbUĭ]cbg`Yj bYf

DfYnYbUÉbÉXcj YXbcgĭ]

5 `ÅngÅ[ ž`c[ mĭgc\_`Ya VYf`Y` Ĩh`ÅdYg`UhÅ\_cbnub`Y` UXb]`Uh`Ch`YHY]h

## A chj 1Wj g`Yj Å`! @Yn1E1g

X1b

VgΛ

>Y[ `Yf`a Y[ Yha chj YfYic[ `gYf`ZYa `ĭ` `XYhj Uf]YfYh UfVY`XY`gca `Yb`gĭ`]b[ `]`YfYgĭ] f\_gca `YX`\_Ub Ĩh`VnXY`a ]["

A 1/2 j Y`\_ci `a chj UWdfUWĭ] Uhj Yj U Égdc`Yébcgĭ] U h`Éa `gY`bU`f`cna Ub]ĭci `df`1Wĭ`\_hYf`ci `a ]`Ĩh`c`dcn]W a `YbUWÉ]bci Ĩ`

@Yn1E1g1/2`a Y[ ]ga Åh`j Yž`c[ mia Ybbr]fY`gnYfYbÅ`Uj 1/2U`UbU`\_Xc`[ cnb]`

>Y[ `gYf`bmY`cd[ Uj Yf`#XYbbY`gĭ`]b[ `gca `Yb j Y`\_ca a Yb`i XZcfXf]b[ ž`gca `Y[ `gYf`ZYa `ĭ`"

J ]XÉa `bcj ÅÖ`c`n`ĭ Ĩc`dcn]W/`U`\_c`dcn]ĭj bÉj ùĭj i žbU`\_hYf`ci `gY`h`Éa`"

@Yn1E1g1/2`a Y[ ]ga Åh`j Yž`c[ mia Ybbr]fY`gnYfYbÅ`Uj 1/2U`UbU`\_Xc`[ cnb]

>Y[ `ĨU[ Yf[ `YfbY`]a cX`a i `][ `YX`Yb`Zcf`UhX]g\_i ĨYfY mXYf][ `YfY`XYĨU`Yf`ca `gĭ`]b[ Yb`a YX`X][ dYfgcb`][ Ĩ`

F 1XfUÉ`VnW`dfcX]g\_i Ĩcj UfUÉ`XU` É]bZcfa UW`c`a ùW`n\_i` YbcgĭW`U`XYĨU]`W`c`XUbÅ`dcn]W]bU`Yj Ybĭ 1/2bÉa`dc`cj`cfi`"

@Yn1E1g1/2`Z`j ]`Ubĭub] Y[ m`Y`Yh`gÅ[ Yg]bhYf`Ch

8i `\_Ub`Z]bXY`a ]ĨfYg`a Å`#7J`j YX`U[ Ĩ`

A `^`j] cĭcd]gbU`YrbYHY`j `d`Écny`

GĭubXUfX`Zcfa i `U`UbbU`\_`YÉf]g]UÉž`c[ mU`7J`\_U`Vĭ]h`c`a 1/2m`Ub]j`Ub

>Y[ `\_Ub`g`UZZ`fYZfYbWf`ZFU`""`<j`]g`b`ÖX] YbX][ Ĩ`

J `d`ÉdUX`÷`dch`Ywma`c`ĭ` `XcXUĭfYZfYbW`cX`""`"

GĭubXUfX`Zcfa i `U`UffUž`c[ mĭbr]ĭcĭĭj U[ mĭfYZfYbW]1/2`UX`1/2U

# >Y`Ybh\_YnÅg A chj 1Wj g`Yj Å`



F YZYfYbWf`\_Ub`fY\_j ]YfYgZfU`""

C`Xb÷fYZfYbVÉgY`cvfU hY`bU`""

5 bbU\_`YÉf`g]ÉLÉ`c[ mhi Xgn`cncb]`fYZfYbWj`bÅgž`c[ m\_]hi\_YfYggYbY\_`ÁfHY

>Y[ `Yf`YX][ `h` `Yh]bhYfj ]Yk `XYb`""

B`Udc\cj cf`gY`a c\i `XcgUj ]hXbY`""

5 bbU\_`Uhi Xca 1g `UX`g]ÉLÉ`c[ mignUMUX`j U[ miY[ mi]bhYf`ÖfU

HU\_`Zcf`X]b`h]X`c[ `cj Yfj Y`Y`gY`">Y[ `gYf`ZfYa `h`  
a i `][ \YXYb`Zcf`Yb`dYfgcb`][ `g]a hU`Y`ca `]j cfZcf  
Y[ `]gÅ`fXY`Yg\YX`dUggYf`h` `XYbbY`g]` `]b[ `"?`cbhU\_h  
a ][ `j`Yb`][ `ghj ]U`""

8÷\_i `]nUj 1/2`éUgUrnj 1/2YbÉa Å` 1Xcgj]`H÷`Éa `gY`bU  
Yj Ybhi 1zbÉcgcVbÉgYh\_1bÉž\_XY`VnW`a ÷fUÉ`d`ÉY ]hcg  
i\_1bUž`Y`gYa ]XY`zbÉ\_UbX]X`bdfc`hi hc`dcn]W]`Df`cgā  
\_cbhU\_h`hY`a ÷`bU`""

5 `dfYZfY`zhY`Å`Yh`gÅ[ Y\_`a Y[ UX`g]b1/2`ÅgU`Y`Ybh\_YnÅg`1bÅnÅgÅ`Áfha Y[ `\_ÖgnÖbÅgY`\_cf`\Ugnb1/2Uhcg

A YX`j`Yb`][ `]\`gYb

G`dcnXfUj Ya ž

< ]j Uu`cgž`VÉa nYthibYj Y`]ga YfYhYb

A YX`j`Yb`][ `]\`gYb

G`dcnXfUj Ya ž

< ]j Uu`cgž`gnÅ`Yg\_ÖfVYb`\Ugnb1/2ž]ga YfhVÉa nYth

A YX`fYgdY\_ž

G`ÖMti ž

< ]j Uu`cgž`bYa `iÖ`Y`hYf`YXhž]ga YfhVÉa nYth

A YX`j`Yb`][ `]\`gYb

G`Y`gfXYébUa `dcnXfUj Ya ž

B`Ya `]\j Uu`cgž`Øn`Yh]`dUfthYfY\_`\_ÖnÖhžU\_]`hY[ Yn`XbY\_`