

@Yj A`!`7Ea

ZfubVjU

A f" >" F \cXYg  
F \cXYg/ ' F \cXYg7 cfd"  
& % & ' G ] j YfVUW \ ' 8 f ] j Y  
7 U ] Zc f b ] U G d f ] b [ g 7 5 ' - & - & \*

5 a Yf ] \_ U ] V Ea n A g j Zc f a U .  
7 Ea n Y t h b Y j Y  
J 1/2 U U h b Y j Y  
< 1/2 g n 1/2 a ' Z i h W ' b Y j Y  
H Y Y d 0 A g j b Y j Y Z ' c f g n 1/2 ' f C ] X E A g j Z ' j f 1/2 b n t i g n 1/2

bAa Yh

A f" >" F \cXYg  
F \cXYg/ ' F \cXYg7 cfd"  
& % & ' G ] j YfVUW \ ' 8 f ] j Y  
7 U ] Zc f b ] U G d f ] b [ g 7 5 ' - & - & \*

A f" 5 X U a ' G a ] h  
G a ] h f j ' D ' U g j V g  
, ' 7 f c g g ] Y X F c U X  
G Y ` m C U \_  
6 ] f a ] b [ \ U a  
K Y g h A ] X ' U b X g  
6 & - % K E

6 f ] h A g j f ' V Ea n A g j Zc f a U .  
7 Ea n Y t h b Y j Y  
J 1/2 U U h b Y j Y  
< 1/2 g n 1/2 a Z i h W  
H Y Y d 0 A g j # 1/2 c g  
c f g n 1/2  
] f 1/2 b n t i g n 1/2

A f" 5 X U a ' G a ] h  
G a ] h ' D ' U g j V g  
, ' 7 f c g g ] Y X F c U X  
G Y ` m C U \_  
6 ] f a ] b [ \ U a  
K Y g h A ] X ' U b X g  
6 & - % K E

7 ` U X Y ` 8 i V c ] g  
G c V A A ` @ V W b U X U  
( ( z f i Y X Y g C V A U b g  
C h k U f C b h f ] c k ? % \$ \$ 5 '

? U b U X U ] V Ea n A g j Zc f a U .  
7 Ea n Y t h b Y j Y  
J 1/2 U U h b Y j Y  
< 1/2 g n 1/2 a Z i h W  
H Y Y d 0 A g j f A [ ] i # a Y [ m Y f C ] X E A g j Z ' j f 1/2 b n t i g n 1/2

H Y A U b U ] b [ ' 8 ] f W t c f  
: ] [ \ h g h f ' 7 c f d c f U h ] c b  
) ) ' A c i b h U ] b ' F ] g Y  
5 b h c [ c b ] g \ B G 6 & ) H,

> U e i Y g 8 i f U b h  
G c V A A ` @ U V Y [ ] e i Y  
f i Y X Y g : ` Y i f g & )  
% \$ \$ \$ 6 f i I Y ` Y g '

A g ' 7 Y ] U > c b Y g  
H N ' A c h c f g  
( + < Y f V Y f h G f Y Y h  
: ` c f Y U h  
D Y f h ' K 5 \* \$ %

n`Yh`A`Yh  
@Yj A`



5 i gnrf1/2Uj`Vla nAgj`Zcfa U  
7 Ea nYHbYj Y  
J 1/2UUhYj Y  
< 1/2gn1/2a Zi hW  
F A[ jI #a Y[ nY#1/2Ua  
HY Yd0AgZ]f1/2n1/2i gn1/2a

GhAd\UbY`6U`cb  
GcVVAhA`@Uj jggY  
) \$`Uj Ybi Y`XY`UF Adi V]ei Y  
% \$ \$ ; YbAj Y`

A jgg@`"A Ufg U`  
5ei UhWVb]Vg@h`  
+() `? ]b[ `GfYHh  
K Ygh9bX  
K Y`]b[ hcb`\$\* , \$

¶ 1NA`UbX]`Vla nAg`  
7 Ea nYHbYj Y  
J 1/2UUh  
< 1/2gn1/2a Zi hW  
? OnYH#\_Yf0YH#a Y[ mY  
HY Yd0AgZ]f1/2n1/2i gn1/2a

7`UFjggY`6YU`jYi  
GcVVAhA`@UfUbW  
% žfi YXi `6UW  
+) ) \$ \$ `D5 F =G`

A 0`Yf`/ `Gc\`b ; a V<  
< Yffb`DYHf`A 0`Yf  
: U`\_YbgfU`bY&  
&\$%`\$`< Ua Vi f[  
8Yi hgW`UbX

š`HU`1/2bcg]Ub[ c`Vla nAg Vla nYHhZj 1/2UUhZ`1/2gn1/2a`Zi hWZiHY`Y0AgZ`a Y[ mY#A[ jI Ž]f1/2n1/2i gn1/2a

@Yj A`!`Bn]hVg?`YnXAg  
ZfUbV]U

bAa Yh

A cbg]Yi f`Y`dfAg]XYbrž  
B U[ mcb`\j Uu]cgZ`U`U`Vla nYHbY`\_j Ub`j U`Ua ]`mYb`Vla Y#Ub[ `UzU`\_cf`Uhh`Ugnb1/21`\_`UbYj 0`Y`nYHh

G\ f [ Y\ fhYf`< Yff`Df`Ag]XYbrž

A cbg]Yi fž  
< ]j Uu]cgZ`ZAfZ]`Vla nYHhZ]ga YfYhYb`bAj

G\ f [ Y\ fhY`8Ua Yb`i bX`< YffYbž

A UXLa Yž  
< ]j Uu]cgZ`b ]`Vla nYHhZ]ga YfYhYb`bAj

G\ f [ Y\ fhY`8Ua Yb`i bX`< YffYbž

A UXLa YžA cbg]Yi fž  
< ]j Uu]cgZ`bYa`Ag`bAj`]ga YfYhYb

G\ f [ Y\ fhY`8Ua Yb`i bX`< YffYbž

A UXLu YžA cbgYi fž  
< ]j Uu cgž Ua ]\_cf`h`OV`Ya VYfbY\_`j U[ mY[ mY[ Ågn`f`Ågn`Y[ bY\_`VĚa YnnØ\_

G\ f [ Y\ fHY`8Ua Yb`i bX`< YffYbž

5i l `df]bV]dU l `VcbWfbÅgž  
< ]j Uu cgž VĚa nYHY\_`bYj Y`Åg`bYa Y`]ga YfYhYb

G\ f [ Y\ fHY`8Ua Yb`i bX`< YffYbž

A cbgYi f`8i dcbłž  
< ]j Uu cgž ZÅFZ]`VĚa nYHž`]ga YfhibÅj

G\ f [ Y\ fHY`< Yff`G\Wa ]Xłž

A UXLu Y`8i dcbłž  
< ]j Uu cgž b ]`VĚa nYHž`\`%Ugž`]ga YfhibÅj

G\ f [ Y\ fHY`: fU `G\Wa ]Xłž

A UXYa c]gY`Y`8i dcbłž  
< ]j Uu cgž b ]`VĚa nYHž`Y[ mYXØ`½`Ī`ž`]ga YfhibÅj

G\ f [ Y\ fHY`: fU `G\Wa ]Xłž

A UXLu Y`8i dcbłž  
< ]j Uu cgž b ]`VĚa nYHž`]ga YfhibÅj ž`]ga YfYhYb`VgU`%`]`½`Udch

G\ f [ Y\ fHY`: fU `G\Wa ]Xłž

A cbgYi f`8i dcbłž  
? Yj ÅgV`Å`\]j Uu cgž a %`h`Ø`h`b`h`\_cf`%`V`U`b`Ø`h`Y`h`\_Ø`h`#`\_U`d`V`g`\_`U`Z`Y`j`Å`h`\_`U`Z`Y`\_`\_`Ø`h`h`

@]WYf`< Yff`G\Wa ]Xłž

7\Yf`6`Yb`Ua ]bž  
B`Ya` \]j Uu cgž U`VĚa nYHh`U`V`U`F`%`b`\_

@]WYf`>c`\Ubbž

Bci gj ci g`ÅV]j cbgVcbWfbUbh`""  
< ]j Uu cgž Lh`Y[ Ågnj` ½`U`U`h`b`Yj` ÅVYb`gnĪ`

K ]f`g`W`f`Y]VYb`=>b`Yb`V`Y`n`Ø[`]W`""

Bci gj ci g`ÅV]j cbgU`g`YhXY`""  
< ]j Uu cgž Lh`Y[ Ågnj` ½`U`U`h`b`Yj` ÅVYb`gnĪ`

K ]f`g`W`f`Y]VYb`=>b`Yb`]b`Ni`g`Ua`a`Yb`\U`b[`'a`]H`""

Gi ]HY`¼`""  
< ]j Uu cgž j`U`Ua`]`c`n`b`f`U`i`h`ž`Ua`]h`U`VĚa`n`Y`H`j` ½`U`U`h`U`\_`U`d`V`g`\_`U`h`U`b`'a`Y[`h`U`d`U`g`h`U`h`ž`

6Yri [ `b`Y`a`Yb`X`U`Z`""

9b`f`ÅZ`Å`Y`b`W`¼`""  
< ]j Uu cgž j`U`Ua`]`c`n`b`f`U`i`h`ž`Ua`]h`U`VĚa`n`Y`H`j` ½`U`U`h`U`\_`U`d`V`g`\_`U`h`U`b`'a`Y[`h`U`d`U`g`h`U`h`ž`

=b`6Yri [ `U`Z`""

>ÅV]g`U`Z]b`XY`a`Y`f`Y`b`g`Y[`b`Y`f`g`f`""  
? Yj ÅgV`Å`\]j Uu cgž U`g`U`%`b`W`Å[`Y`X`b`Yj` ÅVYb`j`U`Ī`Ě`%`g`\_cf`

=W`g`W`f`Y]VY`=>b`Yb`ž`i`a`'a`]W`b`U`W`""`ni`Y`f`\_i`b`X[`]Y`b`""

>Y'j ci g`A`Wjg`XY`U`dUfh`XY`""  
< j Uu`cg`z`La ]\_cf`j Uu\_]`a 1/2`bYj A`Vyb`f`fgn

=W`g`WfYjW`=>bYb`ja `BUa Yb`j cb`""

J chfY`gc`VjA`Zi hfY`Wta a UbX`AY`dUf`""  
< j Uu`cg`zi Xj Uf]Ug`\_YnX`Ag

=>f`i bhYfb`Ya Yb`ki fXY`a ]f`j cb`""`g`f`Ya dZc`Yb`""

### @Yj A`!` : `gnQ` Y[

#### ZfubVjU

G]`W`U`bY`j ci g`c`W`Wjg]`cbbY`U` Wb`X`AgU[ f`A`a YbH`""  
< j Uu`cg`\_A`f`Ag`z`i j Urcg

#### bAa Yh

K Ø`fXY`Yg`GjY`=>bYb`Yrk`Ug`U` ga UWYb`z`k`Yb`""

5 i f]Yn!`j ci g`f`i`a Uv`]jH`A`XY`""  
< j Uu`cg`\_A`f`Ag`z`i j Urcg

K A`fYb`GjY`gc`Z`fY` bX`jW`""

>Y'j ci g`gU` fUj [ f`A`XY`""  
< j Uu`cg`\_A`f`Ag`z`i j Urcg

=W`k`A`fY`=>bYb`g`f`j`Yf`Vi` bXYb`z`k`Yb`""

Bci gj`ci g`gU` f]cbg[ f`A`g]`j ci g`U` ]Yn`f`c`V][ YubW`  
XY`bci g`Ybj`cnYf`d`i` g`X`f]b`Z`cfa U]cbg`g`i` f`""  
< j Uu`cg`\_A`f`Ag`z`bU[ mcb`i` Xj Uf]Ug

K ]f`k`Ø`fXYb`i` bg`g`f`Z`fY` Yb`z`k`Yb`GjY`i` bg`  
U` g`Z`f`jWYfY`-bZ`cfa U]cbYb`Ø`Vf`""`ni` gYbXYb`\_`Ø`bbH`b`"

>Y'j ci g`gU` fUj [ f`A`XY`""  
< j Uu`cg`\_A`f`Ag`z`bU[ mcb`i` Xj Uf]Ug

=W`k`A`fY`=>bYb`g`f`X`Ub`\_`V`Uf`z`k`Yb`GjY`""`\_`Ø`bbH`b`""

Dci ff]Yn!`j ci ga`Y`Z]j`fY`dUf`j`Yb]f`""  
< j Uu`cg`\_A`f`Ag`z`i` Xj Uf]Ug

K Ø`fXYb`GjY`a` ]f`Z`fY` bX`jWYf`k`YjgY`""`ni` gYbXYb`""

Bci g`gca`a` Yg]`bh`A`fY`gg`Ag`dUf`U`f`A`W`d]`cb`XY`""  
< j Uu`cg`\_A`f`Ag`z`i` Xj Uf]Ug

K ]f`g]`bX`X`Uf`Ub`]`bh`f`Y`gg]`Yf`h`z`""`ni` `V`Yn]`Y`Yb`#`f`U`H`b`""

>Y'a`Y`dYfa`Y`hg`XY`j`ci`g`XYa`UbXYf`g]`""  
< j Uu`cg`\_A`f`Ag`z`i` Xj Uf]Ug

=W`a`Ø`W`H`GjY`Z`fU[`Yb`z`cV`""

Dci ff]Yn!`j ci g`fY`Wta`a`UbXYf`""  
< j Uu`cg`\_A`f`Ag`z`\_`Ø`nj`Yh`Yb

?`Ø`bbYb`GjY`""`Ya`dZ`A`Yb`""

5 i f]Yn!`j ci g`f`c`V][ YubW`XY`a`f`Ybj`cnYf`""  
< j Uu`cg`\_A`f`Ag`z`\_`Ø`nj`Yh`Yb

K Ø`fXYb`GjY`a` ]f`Z`fY` bX`jWYf`k`YjgY` `ni` gYbXYb`""

Bci gj ci g'df]cbg'XY''''

< ]j Uu]cg\_`AfAgz`bu] mcb`\_`Oj YhYb

GjYk YfXYb`Xf]b[ `]Wgh[ WYhYbž''''

Bci gj ci g'gYf]cbg'fWtbbU]ggUbhj'g]''''

< ]j Uu]cg\_`AfAgzi Xj Uf]UgžUj 1/2 UUhbyj A`Yb

K ]f`k AfYb`=abYb`XUb\_VUfžk Ybb''''

E i Y`Y`Yghj chY`]gY`XYg'df]l` dci f''''

< ]j Uu]cg\_`Ø`Ob`Y[ Yg\_`AfAgz`\_`Oj YhYb

K ]Y`U`hYh`=f`U`h`Y`Yf`@]gYbdfY]gZØf''''

Bci g'gca a Yg]bhAfYggAg'dUf''''''''Yhbc i g'XAg]fYf]cbg  
gU] c]f''''

< ]j Uu]cg\_`AfXY\_` XAgz`\_`Oj YhYb

K ]f`g]bX`Ub`'''']bhYfYgg]Yfhi bX`k`ØfXYb`[ YfbYk`]ggYbž''''

Bci g'Vta dfYbcbg'XY'dUfhj chY'di V`]VhA`ei Yj ci g  
dfcXi ]gYn''''

< ]j Uu]cg\_`AfXY\_` XAgz`\_`Oj YhYb

K ]f`U`Yb`=f`Yf`K`YfVi b[ `YbHca a YbžXUgg]Y''''  
`Yfgh`Yb''''

BchY]bhYbh]cb`YghXY''''

< ]j Uu]cgz`\_`Oj YhYb`gn1/2XÁ`bm]`Uh`cnUh

K ]f`VYUg]W]h[ `Yb''''

Bci g'Uj cbg`Ah X]A`j chY`dfcdcg]h]cb`Uj WUd`i g  
[ fUbxY`UhhYbh]cb`Yh''''

< ]j Uu]cgz`Y[ m]Ch`Yh`X`ObH`g'a Y[ `cn]g]h]`

K ]f`U`Yb`=f`5b[ YWchgc]f[ Z`A`h[ ]`YdfØzhi bX

Bci g'fY[ fYhcbgXY`j ci g]bZcfa Yf`ei Y''''

< ]j Uu]cgz`U`Yb`Uhj ]ggU`hUg]h]g]Uj U[ m]AfXY\_` XAg`]\`Ybmi]bU\_`AfnA`Y`hYhAgY

@Y]XYf`a`ØggYb`k ]f`=abYb`a ]hY]`YbžXUgg

### @Yj A`!`@Yn]E]g

#### ZfUbv]U

Dci f`fci hY`U]XY`g` dd`Aa YbhU]fYžbf]Ag]hYn`dUg`1/4a Y  
VtbbUWYf''

< ]j Uu]cgz`bu] mcb`i Xj Uf]Ug

#### bAa Yh

: Øf`k`Y]hYfY`5i`g`ØbzY`ghY`Y]W`=abYb`[ YfbY`ni`f`  
J`YfZØ[ i b[ ``

BfiAg]hYn`dUg`1/4bci g'VtbbUWf`dci f`fci hY`i bY`U]XY`  
g` dd`Aa YbhU]fYf''

< ]j Uu]cgz`bu] mcb`i Xj Uf]Ug

6]hY`UggYb`G]Y`i`bgk ]ggYbžZU`gk ]f`=abYb`k`Y]hYf`  
W\]Z]W`g]b`\_`ØbbYb''

9bj ci g'fYa YfV\ubhdUf`Uj UbW`""  
< ]j U\Ucgz`bU[ mcb`i Xj Uf]Ug

J ]Yyb`8Ub\_`ja`J cfU`g`"

Bci g'fYg`cbg`1/4j chfY`X]gdcg]h]cb'dci f`hci H`  
]bZcfa U]cb`V`a d`Aa YbhU]fY`  
< ]j U\Ucgz`bU[ mcb`i Xj Uf]Ug

: Øf`k Y]hYfY`-bZcfa U]cbYb`gh\Y]W`-aByb`[YfbY`ri f`  
J YfZØ[i b["

>Y`j ci g'gYfU]g'fYV`bbU]ggubhg]j ci g'dci j ]Yn`A`hi X]Yf`  
W`H`ei Yg]cb`U` gg]`fUd]XYa Ybhei Y`dcbg]V`Y`  
< ]j U\Ucgz`bU[ mcb`i Xj Uf]Ug

=W`k A`fY`-aByb`A`i »YfghXUb`\_VUf`žk Ybb`G]Y`X]YgY`  
5b[ Y`Y[ Yb\Y]hgc`gWbY`k`J]Y`a`Q`\_`]W`dfØZYb`\_`ÖbbH`b`"

A YfV\XY`a Y`f`A`dcbXfY`X`A`g`ei Y`dcbg]V`Y`ž`A`ubh`  
Xcbb`A`ei Y`""  
< ]j U\Ucgz`i Xj Uf]Ug

6]H`Y`UbHk cfH`b`G]Y`i bgi a [ Y`YbX`ž`XU

B fi`A`g]H`n`dUg`1/4a Y`V`b`h`U`W`f`dci f`XUj UbhU[ Y`  
Xf]bZcfa U]cbg`  
< ]j U\Ucgz`i Xj Uf]Ug

: Øf`k Y]hYfY`-bZcfa U]cbYb`gh\Y]W`-aByb`[YfbY`ri f`  
J YfZØ[i b["

>Y`a Y`f`A`ci ]g`XY`U`dcbg]V`]h`A`Xfi bY`Z`h`i`fY`  
W`U`cfU]cb`  
< ]j U\Ucgz`i Xj Uf]Ug

=W`ž`Y`i`Y`a`]W`U`i`ZX]Y`Ni`g`ja`a`YbUfVY]H`

A YfV\dci f`j chfY`U]XY`  
< ]j U\Ucgz`i Xj Uf]Ug

J ]Yyb`8Ub\_`žØ`-afY`< ]ZY`]b`X]YgY`5b[ Y`Y[ Yb\Y]H`

8 Ub g`f`U`H`Y`b`H`Y`X`fi`b`Y`b`f`Y`h`Y`b`d`fc`W`U]b`  
< ]j U\Ucgz`\_`Øj`Y`h`Y`b`

=W`ž`Y`i`Y`a`]W`X`U`f`U`i`ž`X]Y`g`Y`b`G`U`W`j`Y`f`U`h`a`]h`-aByb`ri`  
V`Y`g`d`f`W`W`Y`b`"

G]j ci g`Uj Yn`W`Y`g`]b`XY`d`i`g`X`f]bZcfa U]cbg`""  
< ]j U\Ucgz`\_`Øj`Y`h`Y`b`

: U`g`G]Y`k`Y]hYfY`-bZcfa U]cbYb`V`b`Ø]h`[`Yb`""

A YfV\XY`j chfY`V`b`Z]UbW`  
< ]j U\Ucgz`\_`Øj`Y`h`Y`b`

K ]f`g`W`A`h`Y`b`G]Y`U`g`?`i`b`XY`

A YfV\XY`a Y`V`b`h`U`W`f`ž`a`cb`bi`a`A`fc`XY`h`A`A`d`cbY`  
Y`gh`Y`""  
< ]j U\Ucgz`bU[ mcb`\_`Øj`Y`h`Y`b`

6]H`Y`\_`cbH`U`\_`h]Y`f`Y`b`G]Y`a`]W`"A`Y]bY`HY`YZ`cbbi`a`a`Y`f`]gh`"

8 Ubg`fuhYbH`XYj chfY`fÅdcbgY"  
? Yj ÅgVÅ`\\j UuJcgži Xj Uf]Ug

⇒W`k ØfXY`a ]W`ZfYi YbžVUXj cb`⇒bYb`ri `ŒfYb"

J Yi ]`Yn`U[ fÅYf`fYi dfYgg]cb`XY`a Yg`gYb]a Ybrg  
fYgdYVh Yi I "

A ]hZfYi bX`]WYb; fØ»Yb

< ]j UuJcgž]ga YfYhYb`VĚa nYth

J Yi ]`Yn`fYWj c]f`a Ygd`i g`VcfX]UYgg]i h]h]cbg"  
< ]j UuJcgž[ mU`fU b`\\Ugnb]žž]ga YfYhYb`VĚa nYth

A ]hZfYi bX`]WYb; fØ»Yb

J Yi ]`Yn`U[ fÅYf`a Ygg]i h]h]cbgX]gh]b[ i ÅYg"  
< ]j UuJcgžbYa `[ mU`cf]ž]ga YfYhYb`VĚa nYth

< cWUWh b[g c`

A Y]`Yi fYg]i h]h]cbgž

< Yfn`]WY; fØ»Y

B Ya `\\j UuJcgž`ÅhØn`Yh`dUfhYf`\_ØnØhU\_]`hY[ Yn XbY\_

7 cfX]UYa Ybž

; fØ»Y

B Ya `\\j UuJcgž`ÅhØn`Yh`dUfhYf`\_ØnØhžU\_]`[ mU`fU b`Xc`[ cnbU\_`Y[ mØth