

# ⇒ a a ][ fUh]cb 8cW/a Ybhg



## 8cW/a Ybhg! ; YbYfU

: fYbW

CŌg'fci j Y`Y'Zcfa i `U]fY'dci f`SSSS`3  
5g\_]b[ `k \YfY'mci `Wb`Z]bX`U'Zcfa

Hi f\_]g\

SSSS`J]b`bYfYX`Yb`Zcfa `Vi `UW`]f]a`3

E i UbX`j chfY`OxcW/a YbhOU`H]`'A`A`X`A`]j f`A`3  
5g\_]b[ `k \Yb`U'XcW/a Ybhk U]g]gg`YX

OY[YCbY'nLa Ub`j`Yf]`X]3

CŌj chfY`OxcW/a YbhOU`A`A`X`A`]j f`A`3  
5g\_]b[ `k \YfY`U'XcW/a Ybhk U]g]gg`YX

OY[YCbYfYX`Yj`Yf]`X]3

E i Y`Y`Ygh`U`XU`Y`XfY` d]fU]cb`XY`j chfY`d]AW`  
Xf]XYbh]h`A`3  
5g\_]b[ `k \Yb`Ub`=8`]gY`l d]f]b[

?`Ja`\_]`VY`[`Yb]n]b`g`fYg]`b`Y'nLa`Ub`Xc`i`ncf`3

Dci j Yn]j ci g'a fU]XYf`¼fYa d`]f`Y`Zcfa i `U]fY`3  
5g\_]b[ `]Zgca`YcbY`Wb`\Y`d'mci `k`]h`Z`]b[ `]b`h`Y`Zcfa

:`cfa`i`Xc`Xi`fa`La`U`ntU`f`X`a`Y`XYf`'a`]g]b]n`3

E i Y`g`XcW/a Ybhg]Xc]g`Y`Uddcfh`f`dci f`SSSS`3  
5g\_]b[ `k \Uh`XcW/a Ybhg]neci `b`Y`X`h`c`Vf]b[

SSSSSSSSSS`J]b`\Ub[`]VY`[`Y`Yf]`[`Yh]fa`Y`]n]a`3

Dci f`XYa`UbXYf`i`bfY`E`OxcW/a YbhO]j`ci`g`XY`Yn`  
Zci`fb]f`U`'a`c]bg`SSSS`"  
GhU]b[ `k \Uh`mci `b`Y`X`h`c`Udd`m`Zcf`U`XcW/a`Ybh

OY[YQVU`j`i`fi`g`]A]b`Yb`Uh`bXUb`SSSSSSSS`[`Yh]fa`Y`]g]b]n`"

A`cb`#`U`OxcW/a YbhOU`A`A`j`c`A`fY`E`"  
GhU]b[ `h`U`h`c`b`Y`c`Z`mci`f`XcW/a`Ybhg`\Ug`V`Y`Yb`g`h`c`Yb

OY[YQVY`[`Ya`'AU`bX`"

>`f`Ya`d`]g`W`Zcfa`i`U]fY`U`'bca`'XY`SSSS`"  
GhU]b[ `h`U`h`mci`'U`f`Y`W`ta`d`Yh]b[ `Ub`Udd`]W]h]cb`cb`V`\U`ZcZ`gca`YcbY`Y`gY`

6i`VU`j`i`fi`n`h`SSSSS`UX`bU`ntUd`ncfi`a`"

7`Yg]b`Zcfa`U]cbg]gcbh`V`b`Z]XYbh]Y`Yg`"  
GhU]b[ `h`U`h`h`Y`]b`Zcfa`U]cb`]g`V`b`Z]XYbh]U`'Ub`X`k`cb`f`fi`V`Y`X]g]W`c`g`Y`h`c`h`]f`X`d`U`f]h]Yg`

6i`V]`[`]`O`h`Y`X]f`"

Dci`ff]Yn]j`ci`g'a`Y`XcbbYf`i`b`fY`A`i`dci`f`W`h`h`Y`  
XYa`UbXY`3  
5g\_]b[ `]Z`mci`'Wb`\Uj`Y`U`f`Y`W]dh`Zcf`mci`f`Udd`]W]h]cb

6i`VU`j`i`fi`]A]b`V]f`'a`U`Vi`n`U`UW`]f`'a`]n]a`3

## 8cW/a Ybhg!`DYf`gcbU`]b`Zcfa`U]cb

⇒ a a ][ fU]cb  
8cW/a Ybhg



: fYbW

# ⇒ a a ] [ f U ] c b 8 c W a Y b h g



7 ca a Ybhj ci g'UddY Ynlj ci g'3  
5 g\_]b[ 'Zcf'gca YcbYfj'blUa Y

Hi f\_]g\  
5X b nbYX]f3

E i Y'g'gcbhj chfY''Yi 'YhXUHY'XY'bU]ggUbW'3  
5 g\_]b[ 'Zcf'gca YcbYfj'd'UW'UbX'XUHY'cZV]f\

8cūi a 'mYf]b]n] j Y'hUf] \ ]b]n] g'OmYmYV]'f'a ]g]b]n3

C Ō f Å g ] X Y n ] j c i g ' 3  
5 g\_]b[ 'k \YfY'gca YcbY''j Yg

B Y f Y X Y ' n t \ n e f g b i n 3

C Ō \ U ] h Y n ] j c i g ' 3  
5 g\_]b[ 'Zcf'gca YcbYfj'UXXfYgg

\_La YhUXfYg]b]n'bYX]f3

E i Y ' Y Y g h j c h f Y ' b U ] c b U ] h Å 3  
5 g\_]b[ 'Zcf'gca YcbYfj'V]h]nYbg\]d

< Ub[ ] Ø \_Yj U h b X U g b n 3

E i U b X ' A Y g j c i g ' U f f ] j Å Y b ' Q U m g Q 3  
5 g\_]b[ 'k \Yb'gca YcbY'Uff]j YX']b'h.UhVēi blfm

Ø \_Y Q b Y n U a U b ' [ Y X ] b ] n 3

Dci ff]Ynlj ci g'a Y'dfÅgYbhYf'i b'XcW'a YbhXfj]Xybh]hÅ  
3  
5 g\_]b[ 'gca YcbY'h'g'vck 'mēi '\]g'AYf'≠8

? ]a `]ū]b]n]' [ Ō f Y V ] ' ] f ' a ] n ] a 3

## 8cW'a Ybhg! : Ua ]`mg]Uhi g

: fYbW

A U'g]hi U]cb'a Uf]a cb]UY'YghSSSSS"  
Gh]b[ 'k \Uhmēi f'a Uf]h'g]Uhi g]g

Hi f\_]g\

A YXyb]\U]a 'SSSSSSSSSSS"

VÅ' ] V U h ] f Y  
A Uf]h'g]Uhi g

VY\_Uf

A Uf]ÅfYŁ  
A Uf]h'g]Uhi g

Yj `]

GÅdUfÅfYŁ  
A Uf]h'g]Uhi g

Uhf `a

# ⇒ a a ][ fUh]cb 8cW/a Ybhg



8]j cfWÅfYŁ  
A Uf]hU`gfhig

Vc Uba

Yb`VčbWV]bU[ Y  
A Uf]hU`gfhig

V]f`\_LH`ntU ncf

XUbg'i bY'i b]cb`Vŷ]`Y  
A Uf]hU`gfhig

a YXYb]V]f`\_LH`\_

Yb`VčbWV]bU[ Y  
A Uf]hU`gfhig

Yj`Yba Ya ]`Ä]Zn

Yb`dUfhYbUf]UhXca Yg]ei Y  
A Uf]hU`gfhig

a YXYb]cfhU`\_`\_]Ä]bXY

j Yi Z# Yi j Y  
A Uf]hU`gfhig

Xi`

J ci g'Uj Yn`XYg`YbZUbhg`3  
5g\_]b[ ]Zgca YcbY`Ug`W]`XfYb

£cWüi bi nj Uf`a` 3

J ci g'Uj Yn`XYg`dYfgcbbYg`¼WUf`Y`3  
5g\_]b[ ]Zgca YcbY`dfcj ]XYgZ]bUbV]U`g`ddcfhrc`dYcd`Y`j ]b[ `k ]h`a`#Yf

6U\_a U`Un0\_0a`0c`Xi üi bi n`\_]a g`Yf`j Uf`a` 3

>Y`j ci XfU]g`fÄi b]f`a`U`Z]a ]`Y`  
GhU]b[ `nci f`]bhYbh]cb`hc`fyi b]hY`k ]h`nci f`Z]a ]`m

5]Ya ]`ntub a UUa U`\_]g]ncfi a "

## 8cW/a Ybhg!`F`Y[ ]gYf]b[ ]b`h`Y`V]m

: fYbW

Hi f\_]g\

>Y`j ci XfU]g`a`f]bgW]fY`Yb`h`ubhei`Y`bci`j`Y`Uff]j`Ubh`  
GhU]b[ `h`Uhmci`k`ci`X`\_]Y`hc`fy[ ]gYf]b`h`Y`V]m

Y\]fXY`\_La`Yh`\_UhX`ntubhfa`U`\_]g]ncfi a "

E`i`Y`g`XcW/a`Ybhg`Xc]g`Y`UddcfhYf`3  
5g\_]b[ `k`h`XcW/a`Ybhg`nci`g`ci`X`Vf]b[

< Ub[ ]`VY[ ]Yf[ ]`Yh]fa`Y`n]a` 3

M`U`h`]`XYg`Z`U]g`Xf]bgW]d]h]cb`3  
5g\_]b[ ]Z`h`YfY`UfY`UbmV`g`g`cZ`fY[ ]gYf]b[

? Umh]`Ya`Yf[ ]Ä]b`0W]h`0X`Ya`Y`]a`n]a` 3

# ⇒ a a ] [ f U h ] c b 8 c W a Y b h g



>Y'j ci XfU]g'g] [ bU'Yf'a U'bcj j Y`Y'UXfYggY"  
GhU]b [ 'h.Uh'mci 'UFY'h.YfY'hc'fY [ ]g'hYf'mci f'Xca ]W'Y

\_La Yh\_UhX`ntubhfa U\_ ]A]b'Vi fUXUma "

>Y'j ci XfU]g'XYa UbXYf'i bY'U'hYg'h]cb'XY'VcbbY  
V'ebXi ]hY"  
GhU]b [ 'h.Uh'mci 'k ci 'X` ]\_Y'hc'Udd'm'Zcf'U [ ccX'V'ebXi V'h'Wf'h]Z]V'hY

m] \U'WY [ Yg]'VU j i fi g bXUVi `i ba U\_ ]g]h'ncfi a "

>Y'j ci XfU]g'XYa UbXYf'i b'dYfa ]g'XY'g'A'ci f"  
GhU]b [ 'h.Uh'mci 'k ci 'X` ]\_Y'hc'Udd'm'Zcf'U'fYg]XYbW'dYfa ]h

Ch' fa U]'rb] VU j i fi g bXUVi `i ba U\_ ]g]h'ncfi a "

## 8cW a Ybhg! < YU h ]bg fUbW

: fYbW

Hi f\_]g\

>Y'j ci XfU]g'j ci g'dcgYf'ei Yei Ygei Yg]cbg'g f  
'f]gg fUbW'a UUX]Y"  
GhU]b [ 'h.Uh'mci `Uj Y'gca Y'ei Yg]cbg'U'ci h'h.Y`YU'h ]bg fUbW

GU` \_]g [ cfhUg'mU] [ ] ] VUh 'gcfi `Uf'g'cfa U\_ ]g]h'ncfi a "

9g'hW'ei Y'f]U] `VYgc]b'X'fii bY'a i h' Y`Y'3  
5g\_]b [ ]Z'mci 'b'YX'df]j U'h'Y`YU'h ]bg fUbW

2 nY'gU` \_]g [ cfhUg'bU] \h]ntuW'a j Uf'a 3

E i fYgh'W'ei ] Ygh'V'ei j YfhdUf`f]gg fUbW'a UUX]Y'3  
5g\_]b [ 'U'ci h'h.Y]bg fUbW'V'ej YfU] Y

GU` \_]g [ cfhUg 'b'Y'Yf] \_Udg'ncf 3

: fU]g'`c'gd]hU]Yfg  
9l Ua d'Y'cZ`YU'h ]bg fUbW'V'ej YfU] Y

< UghUbY'a UgfUZUf

: fU]g'XY'V'ebg ]h]cb'X'fii b'gd'AV]U]g'hY  
9l Ua d'Y'cZ`YU'h ]bg fUbW'V'ej YfU] Y

I na Ub'Xc\_hcf'ØM'hYf]

HYgh'X]U] b'cg]h'ei Yg  
9l Ua d'Y'cZ`YU'h ]bg fUbW'V'ej YfU] Y

HUb \_]cna U'hYgh'Yf]

Cd'ÅfU]cbg'W]fi f [ ]W'Yg  
9l Ua d'Y'cZ`YU'h ]bg fUbW'V'ej YfU] Y

7 YffU] ]cdYfUg'ncb`Uf

HfU]h'Ya Ybh'dgn'W]Uf]h'ei Y  
9l Ua d'Y'cZ`YU'h ]bg fUbW'V'ej YfU] Y

Dg]\_ ]ntuh] ]h'XUj ]g]

# ⇒ a a ][ fUh]cb 8cW/a Ybhg



Gc]bg'XYbHj]fYg

8] hXUj ]g]

9l Ua d'Y'cZ\YUH\ ]bg] fUbW'Vzj YfU] Y

Gc]bg'cW`U]fYg

; Ò:hXUj ]g]

9l Ua d'Y'cZ\YUH\ ]bg] fUbW'Vzj YfU] Y

## 8cW/a Ybhg! 'J ]gU

: fYbW

Hi f\_]g\

Dci fei c] XYa UbXYn!j ci gi bj ]gU'XfYbhfÅY'3

BXYb[ ]f] j ]nYg] ]g]nçfg bi n3

5g\_]b[ 'k \miga YcbY]g]fYei Yg]b[ 'Ub Ybhfmi] ]gU

: U h]` i bj ]gU'dci f'YbhfYf'Yb`@UhgQ3

Ø\_YQ]Å]bj ]nYmY]\h]ntWá j Uf'a 3

5g\_]b[ ]Znçi 'bYX'Uj ]gU'hc'Ybhf'U'Vzi bfm

7ca a Ybhidi ]g'Y'dfc`cb[ Yf'a cbj ]gU'3

J ]nYa ]'bUg`i nUUM]'f]a 3

5g\_]b[ '\ck `mçi `Wb`Yl hYbX'mçi f]j ]gU

Dci fei c]`a UXYa UbXY'XYj ]gU'U'hY`Y`Åh`fY`Yh`ÅY'3

J ]nY'VU j i fi a `bYXyb`fYXXYX]'X]3

5g\_]b[ 'k \mnci f]j ]gU'Udd`]W]h]cb`\Ug'VYyb`fY`VWYX

9gh'W'ei Y`Y'dYl I `XYj Yb]f'fÅg]XYbhidyfa UbYbh3

? U Wchi fi a ]nb] ]Å]b'VU j i fUM]'f'a ]n]a 3

5g\_]b[ ]Znçi `Wb`Udd`m]hc`VYVzta Y`U'dYfa UbYbhifYg]XYbhicZU'Vzi bfm

## 8cW/a Ybhg! '8f]j ]b[

: fYbW

Hi f\_]g\

9gh'W'ei Y`Y'Xc]g]ZU]fY`WUb[ Yf`U'd`Uei Y

5fUMUa b'd`U`Ugb `XYü] h]fa Y]'a ]n]a 3

Xf]a a Uf]W`U]h]cb`XY'a Uj c]h]fY'3

5g\_]b[ ]Znçi `Uj Y'hc`WUb[ Y'h`Y'd`U'Y'cZnçi f'Wfz]b`WbgY'mçi `Vf]b[ ]h]Zfca `mçi f'Vzi bfmicZcf][ ]b

>Y' ci XfU]g]ZU]fY]'a a Uf]W`Yf'a Uj c]h]fY"

5fUMUa ` \_UhXYh]h]fa Y\_ ]g]nçfi a 3

Gh]h]b[ 'h`Uhmçi `k ci `X` ]\_Y'hc`fY[ ]g]Yf'nçi f]j Y\]WY

9gh'W'ei Y'a cb'dYfa ]g'XY'Vzbx] ]fY'Yghj U]XY']W]3

9\ ]m]h]a `Vi fUXU[ YÅYf`]'a ]3

5g\_]b[ ]Znçi f'Xf]j ]b[ ``]Wbgy]'g] U]X'h`YfY

>Y' ci XfU]g]XYa UbXY'f' b'dYfa ]g'XY'Vzbx] ]fY'dfcj ]gc]fY"

; YÅ]WY\` ]m]h]WY[ Yg]`Ua U\_ ]g]nçfi a "

5dd`n]b[ `Zcf`U'dfcj ]g]cbU`Xf]j ]b[ ``]Wbgy

# ⇒ a a ][ fU]cb 8cW/a Ybhg



>Y'j ci XfU]g'dfYbXfY'fYbXYn]j ci g'dci f'dUggYf  
SSSSSSSSSS"

SSSSSSSSSS ]Ā]b'\_Umhc`a U\_ ]g]ncfi a "

GhU]b[ 'h.Uhmcī 'k ci `X` ]\_Y'hc `Vcc\_'ncī f`Xf]j ]b[ ``]WbgY'hYgh

`Y`V&XY  
HmđY`cZ'hYgh

Hcf ]\_g bUj

`U`V&bXi ]fY  
HmđY`cZ'hYgh

X]fY\_g]ncb'g bUj

>Y'j ci XfU]g'ja cX]Z]Yf`SSSSSSSSSS'g' f'a cb'dYfa ]g'XY  
V&bXi ]fY"

9\`]m]ja XY\_]`SSSSSSSSSSSS`V][ ]g]b]`XYü] h]fa Y\_  
]g]ncfi a "

GhU]b[ 'h.Uhmcī 'k ci `X` ]\_Y'hc `WU]b[ Y'gca Y`XYhU]'g'cb'ncī f`Xf]j ]b[ ``]WbgY

a cb`UXfYggY  
K \Uhmcī 'k ci `X` ]\_Y'hc `WU]b[ Y

UXfYg

a cb`bca  
K \Uhmcī 'k ci `X` ]\_Y'hc `WU]b[ Y

UX

a U'd\chc  
K \Uhmcī 'k ci `X` ]\_Y'hc `WU]b[ Y

ZchcŭfUZ

>Y'j ci XfU]g'dUggYf'i b'dYfa ]g'XY`V&bXi ]fY`XY  
W&A[ cf]Y'g dĀf]Yi fY"

9\`]m]ja Y`XU`U'n0\_gY`\_`U]h[ cf]`Yf`Y\_`Ya Y\_ ]g]ncfi a

GhU]b[ 'h.Uhmcī 'k ci `X` ]\_Y'hc `UXX`\][ \Yf`WU]h[ cf]Yg'hc'ncī f`Xf]j ]b[ ``]WbgY

>Y'j ci XfU]g'ZU]fY'fYbci j Y`Yf'a cb'dYfa ]g'XY  
V&bXi ]fY"

9\`]m]ja ]`m]b]`Ya Y\_ ]g]ncfi a "

GhU]b[ 'h.Uhmcī 'k ci `X` ]\_Y'hc `fYbYk`ncī f`Xf]j ]b[ ``]WbgY

>Y'j ci XfU]g'fYa d`UWf'i b'dYfa ]g'XY`V&bXi ]fY  
SSSSSS"

6]f`SSSSSSSSSSSS`Y\`]m]h]`XYü] h]fa Y\_ ]g]ncfi a "

GhU]b[ 'h.Uhmcī 'k ci `X` ]\_Y'hc `fYd`UW`U`Xf]j ]b[ ``]WbgY

dYfXi  
8 f]j ]b[ ``]WbgY']gg Y

\_Umd

# ⇒ a a ] [ f U h ] c b 8 c W a Y b h g



j c`Å  
8 f ] j ] b [ ` ] W b g Y` ] g g j Y

Å U ba

W f a Å  
8 f ] j ] b [ ` ] W b g Y` ] g g j Y

\ U g U f`

> Y` j ci X f U ] g Z U ] f Y` U d d Y` d c i f` f` Å W d` Å f Y` a c b` d` y f a ] g  
X Y` V` b` X i ] f Y`

9` \ ] m` h` j a ] b` ] d` h` U` Y` X` ] a Y` g` b` Y` ] h` f` U` h` Y` h a Y` \_ ] g` ] n` c` f i a "

G h U ] b [ ` h` \ U h m e i ` k c i ` X` ] \_ Y` h e ` U d d Y U` ` m e i f` X` f ] j ] b [ ` V U b

## 8 c W a Y b h g ! ` 7 ] h` n` Y b g \ ] d

: f Y b W

H i f \_ ] g \

> Y` j ci X f U ] g` d c g h` ` Y f` d c i f` ` U` b` U` h` ] c b U` ] h` Å` Q` X` Y` W` h` Z` Q`  
G h U ] b [ ` h` \ U h m e i ` k c i ` X` ] \_ Y` h e ` U g \_` Z c f` U` V` h` ] n` Y b g \ ] d

Ø` \_ Y` g` Z` h` Q` U` h` b` X` U` ` ` ü` ] Å` ] b` V` U` j i f a U` \_ ] g` ] n` c` f i a "

C` Ö` d` Y i h` c b` g` f ] b g W ] f Y` d c i f` ` Y` h` Y` g h` X Y` O` U` b [ i Y` Q` 3  
5 g \_ ] b [ ` k \ Y` f Y` m e i ` W` b` f` Y [ ] g` Y` f` Z` c` f` U` ` U` b [ i U [ Y` h` Y` g h`

Ø` ]` Q` g` b` U` j ` ] Å` ] b` b` Y` f` Y` m` Y` \_` U` h` i` c` ` U` W` ]` f` ] a 3

> Y` b` f` U ]` d` U` g` X Y` W` g ] Y` f` ` X ] V` U ] f Y`  
G h U ] b [ ` h` \ U h m e i ` \ U j` Y` U` W` W` U` b` V` h` ] a ] b U` f` Y` W` e` f` X

G U V` \_` U` \_` U` h` X` a` ` m` e` \_` h` i` f` "

> f` U ] ` Y` b` ] Y U` ` g` Z ] g` U` b` h` Y` b` O` U` b [ i Y` Q`  
G h U ] b [ ` h` \ U h m e i ` \ U j` Y` h` Y` f` Y` e i ] f` Y` X` ` Y` j` Y` ` c` Z` h` Y` ` U` b [ i U [ Y`

; Y` f` Y` \_` ]` Ø` ]` Q` g` Y` j` m` Y` g` ] b` Y` g` U` \ ] V` ] a "

> Y` j ci X f U ] g` d` f` Y` b` X` f` Y` f` Y` b` X` Y` n` ] ci g` d` c i f` ` Y` h` Y` g h` X Y`  
b` U` h` i` f` U ] g` U` h` ] c b` Y` b` @` U` h` e` Q`  
G h U ] b [ ` h` \ U h m e i ` k c i ` X` ] \_ Y` h e ` V` c c \_` h` Y` [ Y` b` Y` f` U` \_` b` c` k` ` Y` X [ Y` h` Y` g h` U` W` c i h` ] Z` Y` ] b` h` U` h` V` e i b` l` f` m`

Ø` \_` Y` Q` h` U` U` a` m` U` ]` [ ]` ]` [ Y` b` Y` V` ]` [ ]` ]` g` b` U` j ` ] Å` ] b` \_` U` h`  
n` t` b` l` h` f` a` U` \_ ] g` ] n` c` f i a

E i Y` g` g` c` b` h` ` Y` g` Z` f U ] g` d` c i f` ` U` X` Y` a` U` b` X` Y` X` Y`  
b` U` h` i` f` U ] g` U` h` ] c b` 3  
5 g \_ ] b [ ` k \ U` h` h` Y` Z` Y` g` U` f` Y` Z` c` f` V` h` ] n` Y` b` g \ ] d` U` d` ` ] W` h` ] c b`

J` U` h` U` b` X` U` ` \_` V` U` j` i` f` i` g` ` Ø` V` h` Y` f` ]` b` Y` \_` U` X` U` f` 3

A` c` b` V` e` b` e` ] b` h` Y` g` h` @` U` h` ] c b U` ] h` Å` Q`  
G h U ] b [ ` h` \ Y` b` U` h` ] c b U` ] h` m` i` c` Z` m` e i f` g` d` c i g` j`

9` ] a` ` @` ] ` ] m` Y` h` g` Z` h` Q` U` h` U` b` X` U` X` f` "