

# **SOCW4015**

<cbci fg F YgYUfWX H\Yg]g</pre>

HYfa 'C bY''##'&\$%-

# 7ci fgY<sup>·</sup>Cj Yfj ]Yk

GHJZZ:7cbHJWh:8YHJ]`g`

'7cbj Ybcfg'

## 7ci fgY 8YHJ] g

## 7 fYX]hDc]bhg \* \*

## Gi a a UfmcZh\Y 7ci fgY

H\Y'6UW\Y`cf'cZGcWU`K cf 'fkcbci fqŁ'dfc[fUa 'dfci]XYg'gh XYbhg'h\Y'cddcfh b]hmhc'XYa cbghfUhY `YUfb]b[ ']b'UXj UbWX:\_bck `YX[Y'UbX;g\_]``g'fYei ]fYX:Zcf'fYgYUfWX:]b'gcWJU``k cf\_'cf'U'fY`UlYX'\YU`l\# Y`ZUfY UfYU"'H\Y'<cbci fg'F YgYUfW\'H\Yg]g'Wci fgY'GC7K (\$%) ']g'h\Y'WYbhfU`'ZcW g'cZ@Yj Y`'('<cbci fg']b'GcWJU` cb'U'gi ghJbYXž']b!XYdh\ gh XmcZhfU]b]b[']b'fYgYUfW\ a Yh\cXg'UbX'XYg][b']bhY[fUhYX'h\fci [\ci hh\Y 6GK fkcbg"Łdfc[fla "Gh XYbhgk]``VY]bX]j]Xi U`mgi ddcfhYX'VmUb'UWUXYa]Wgi dYfj]gcfhc'i bXYfhU\_Y'U %&ž\$\$\$`k cfX`]bXYdYbXYbhYa d]f]\WU``cf`WcbWYdh U``fYgYUfW\`dfc`YWh]b`h\Y]f`UfYU'cZ]bhYfYghY]h\Yf U`cb[g]XY`h\Y]f`: ci fh\`@Yj Y``D`UWa Ybhcf'gi VgYei Ybhhc'h\Y`Wca d`Yh]cb'cZh\Y'D`UWa Ybh]b'Gi a a Yf gYa YghYf"'H\Y'h\Yg]g'k ]``XYa cbghfuhY'h\Y]f'UV]`]mmUg'Ui hcbca ci g'fYgYufW\Yfg'UbX'k ]``U``ck 'ghi XYbhg'hc dfcWYYXX]fYWhmhcUDfcZygg]cbU`8cWhcfUhY]b'GcWJU`K cf\_cf'ch\Yf'fYgYUfW\XY[fYYg"

## 7 ci fqY @YUfb]b[ Ci hWca Yq

- %": cfa i `UhY`U`fYgYUfWX`ei Ygh]cb`Zcf`U`dUfh]W\`Uf`W&bhYI hcf`fYgYUfWX`]ggi Y`UbX`^\ gh]Zmh\Y Uddfcdf]UhY a Yh\cXc`c[m'UbX'fYgYUfVX a Yh\cXg
- &" ⇒YbhZmUbX`UbU`mqY`Wf]h]WU``mh\Y`X]ZZYfYbh'h\YcfYh]WU``dYfqdYWf] Yg`th\Uha Umi]bZi YbWY`th\Y fYgYUfWX dfcWygg UbX UfYU cZghi Xm
- '"8YacbglfUlY'UkUfYbYgg'cZ\ck'mci'\UjY']adYaYbhYX'Ub'Yh\]\W`fYgYUfW\'dfcWYgg'
- ("91YW hY U fygyufwx dfc Ywrih uh Xya cbghfuh yg hYwkb]wu g\_]``]b fygyufwx a Yh c Xg ub X fygyufwx XYq][b'cf'U'hYfbUh]j Y`miq\_]``']b'[YbYfUh]b['WbWYdh'U`'UbU`mqYq'hc'fYZYWh'cb'h\Y'fYqYUfW\']qqiY WkcqYb
- ) " 7 cbgffi WiU h\Yg]g'k \]W\XYa cbgffUhYg'gW\c`Uf`mWUdUV]`]lm

## HYUWX]b[ 'GhfUhY[]Yg'

5g'ghi XYbhg'UfY'i bXYfhU\_]b['Ub']bXYdYbXYbhifYgYUfWX'dfcYWhk\YfY'h\Ymk]``WXccgY'h\Y]f'ck b'fYgYUfWX gdYWJU`mmUfYU`UbX`a Yh\cXc`c[mžh\Ymk]``VY`]bX]j [Xi U``mgi dYfj ]gYX`VmUb`UWUXYa ]Wgi dYfj ]gcf`

## 5ggYgga Ybh

## 5ggYgga YbhHUg\_g

5ggYgga Ybh'hUg_	K Y][ \h	8i Y <sup>.</sup> 8UhY	Gh XYbh@YUfb]b[ Ci hWca Yg 5ggYggYX
<pre><cbci fg'f="" pre="" ygyufv\\"h\yg]g'<=""></cbci></pre>	%\$\$ı	Bch5dd`]WUV`Y	%ž&Ž ž( ž)

### 5ggYgga Ybh8YhJ]`g

5ggYgga Ybh'% <cbci fg F YgYUfW\ H\ Yg]g

GhUfhXUhY. Bch5dd`]WUV`Y

8YHJ]`g. `Ghi XYbhg`UfY`fYei ]fYX`hc`i bXYfhJ\_Y`U`%\$`!%&ž\$\$\$`WcbWidhi U``cfYa d]f]WJ``fYgYUfW.`dfcYWh]b`Ub UfYU`cZh\Y]f`]bhYfYghžfY`UhYX`hc`gcVJU``k cf\_`cf`\YU`h\#k Y`ZJfY`dfUWJWY"'``Ghi XYbhg`k ]```k cf\_`cb`h\]g`dfcYWh ]b`Y]h\Yf`gYa YghYf`&`mYUf`(`fcfXi U``XY[ fYY`Yei ]j`U`YbhŁWcbWi ffYbhik ]h\`h\Y`: ci fh\`@Yj Y``D`UWYa Ybhicf cj Yf`h\Y`gi VgYei YbhGi a a Yf`gYa YghYf''``Ghi XYbhg`k ]```VY`U``cWUhYX`Ub`UWUXYa ]Wgi dYfj ]gcf`k \c`\Ug YI dYfh]gY`]b`h\Y`ghi XYbhg`fYgYUfW.`UfYU`UbX#cf`W\cgYb`a Yh\cXc`c[ m'H\Y`h\Yg]g`a Uf\_`Wca df]gYg`%\$\$i `cZh\Y`a Uf\_`Zcf`GC 7 K (\$%) "Ghi XYbhg`k ]```VY`dfcj ]XYX`k ]h\`cb[ c]b[ `ZYYXVUW\_`cb`h\Y]f`fYgYUfW\`dfcYWh\M h\Y]f`U``cWUhYX`gi dYfj ]gcf''` \ddots UXX]h]cb`ghi XYbhfg`k ]```fYWY]j Y`dYYf`ZYYXVUW\_`Ug`k Y```Ug`ZYYXVUW\_`Zfca 'h\Y Wcbj YbYf`cZGC 7 K (\$%) `Xi f]b[ `gYa ]bUfg''``9UW\`h\Yg]g`k ]```VY`a Uf\_YX`Vmhk c`]bXYdYbXYbh Yl Ua ]bYfg''Ghi XYbhg`k ]```fYWY]j Y`UbX`k f]hhYb`ZYYXVUW\_`Zfca 'h\YYl Ua ]bYfg

#### 5XX]h]cbU`XYhJ]`g.

 $9 \ UW \ h \ Yg]g \ k \ ] \ VY \ a \ Uf_YX \ Vm \ k \ c \ ]b \ Yg \ k \ k \ ] \ dfcj \ ] \ XY \ U \ XY \ U \ XY \ U \ XY \ U \ XY \ h \ Ya \ Uf_ \ Zcf \ h \ Yg]g \ "$ 

 $HY'hYg]g'aUf_Wcadf]gYg'%$$i~cZhY'aUf_Zcf'GC7K($%)"$ 

Gh XYbhg Zbu a Uf\_zcfGC7K (\$%) k]``VY'h Y'Uj YfU[Y'cZh Y'hk c'a Uf\_g'Uk UfXYX'VmYUW 91 Ua]bYf b Ygg'h YfY']g'a cfY'h Ub'U'\*!a Uf 'X]ZZYfYbW'Uhk \]W 'dc]bh'U'h ]fX'Yl Ua ]bYf'a UmVY'Uddc]bhYX"

F Ygci fWYg

DfYgWf]VYX F Ygci fWYg

F YWca a YbXYX F Ygci fWYg

7 ci fgY 9j U'i Uh]cb UbX 8 Yj Y'cda Ybh

Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

Hi fb]h]b Gi Va ]gg]cb

Image: Ybwci bhYf'U'dfcV'Ya k \Yb'UhYa dhJb[ 'hc'gi Va ]hmci f'Ugg][ ba Ybht\fci [ \ 'Hi fb]hJbž'd'YUgY

HY'Yd\cbY'9| hYfbU''Gi ddcfhcb'-', ) '' ' ' %cf'Ya U] 'h\Ya 'cb'Y! hYfbU'hY'hgi ddcfh4 i bgk "YXi "Ui '"'Gi ddcfh
\ci fg'UfY', .\$\$Ua '-'\\$.\$\$da 'cb'k YY\_XUmg'UbX'-.\$\$Ua '-') .\$\$da 'cb'k YY\_YbXg'fl \*) 'XUmg'U'mYUfŁ" Image:

UfY'i bUV'Y'hc'gi Va ]hmci f'Ugg][ ba YbhXi Y'hc'U'ZJi 'hk ]h\ 'Hi fb]hJb'mci 'a UmUdd'mZcf'Ub'Y! hYbg]cbž'Vi hmci
a i ghfYhJ]b'mci f'hJW\_Yhbi a VYf'Zfca '9! hYfbU''Gi ddcfhfU'cb[ 'k ]h\ 'Ubmch\Yf'fY'Yj UbhXcW a YbhgŁ'hc
]bWi XY'Ug'Yj ]XYbW' 'hc'gi ddcfhmci f'Y! hYbg]cb'Udd']WUh]cb" Image: Ya U]''9! hYfbU''Gi ddcfhmci 'k ]''

Ui hca UhJWJ''mfYW'] Y'U'hJW\_Yhbi a VYfž'Vi h]Zmci 'hY'Yd\cbY'mci 'k ]'''bYYX'hc'gdYWJZWJ''mUg\_'Zcf'cbY"

Hi fb]hJb'U'gc'dfcj ]XYg'i dXUhYg'cb'h\Y]f'gmghYa 'ghUh' g'cb'Hk ]hYf"

; YbYfU``mž'UggYgga YbhiHug\_g'a i ghVY'gi Va ]hhYX'Y`YVWfcb]\W)``mj ]U'Y]h\Yf'Hi fb]hjb'cf'U'A ccX`Y Ugg][ ba Ybh'' =b']bgHJb\W'g'k \YfY'h\]g']g'bchdcgg]V`Yž']hk ]``'VY'gHJhYX'cb'mci f'\\circ i fgY'g'A ccX`Y'g]hY'k ]h\ U`hYfbUhj Y'gi Va ]gg]cb'XYHJ]`g''

cfi]bZcfa Uh]cbicbi\ckihcigi Va ]hUgg][ ba Ybhgicbi]bYij ]UiA ccXiY.i\hdg.#gh XYbh'i bgk "YXi "Ui #\ck! qi Va ]hUgq][ ba Ybha ccXiY

### 5 WUXYa ]W<cbYghmUbX D`U[ ]Uf]ga

D`U[]Uf]ga `]g`i g]b[ 'h\Y`k cfXg`cf`]XYUg`cZch\Yfg`UbX`dfYgYbh]b[ 'h\Ya `Ug`mci f`ck b"'=hWJb'hU\_Y`a Ubm Zcfa gžZfca `XY`]VYfUhY`W\YUh]b[ 'hc`UWW]XYbhU`mWcdm]b[ 'Zfca `U`gci fWY'k ]h\ci hUW\_bck `YX[ Ya Ybh'

IBGK [fcidg'd'U[]Uf]ga ]bhc'h\Y'Zc``ck]b[ WUhY[cf]Yg.

7 cdm]b[.'i g]b['h\Y'gUa Y'cf'j Yfmg]a ]`Uf'k cfXg'hc'h\Y'cf][]bU`hYl h'cf']XYU'k ]h\ci h'UW\_bck `YX[]b['h\Y gci fW'cf'i g]b['ei chUh]cb'a Uf\_g"'H\]g'U`gc'Udd`]Yg'hc']a U[Ygž'Ufh'UbX'XYg][b'dfcYWhgž'Ug'k Y``'Ug dfYgYbhUh]cbg'k \YfY'gca YcbY'dfYgYbhg'Ubch\Yf'g']XYUg'cf'k cfXg'k ]h\ci h'WfYX]h'

⇒ Uddfcdf]UhY 'dUfUd\fUg]b[...7\Ub[]b[ 'U'ZYk 'k cfXg'UbX'd\fUgYg'k \]'Y 'a cghmfYhJ]b]b[ 'h\Y'cf][]bU` ghfi Wh fY 'UbX#cf'dfc[fYgg]cb'cZ]XYUg'cZh\Y'cf][]bU'žUbX']bZcfa Uh]cb'k ]h\ci hUW\_bck `YX[Ya Ybh'H\]g'U`gc Udd`]Yg']b'dfYgYbhUh]cbg'k \YfY'gca YcbY'dUfUd\fUgYg'Ubch\Yf'g']XYUg'cf'k cfXg'k ]h\ci hWfYX]hUbX'hc d]YW]b[ 'hc[Yh\Yf'ei chYg'UbX'dUfUd\fUgYg']bhc'U'bYk 'k \c`Yžk]h\ci hUddfcdf]UhY'fYZYfYbW]b[ "

7 c``i g]cb.'k cf\_jb['k]h\ch\Yfg'Vi hdUgg]b['cZZh\Y'k cf\_'Ug'U'dYfgcb'g']bX]j ]Xi U``k cf\_"'7 c``i g]cb'U`gc ]bWi XYg'dfcj ]X]b['mci f'k cf\_'hc'Ubch\Yf'ghi XYbhVYZcfY'h\Y'Xi Y'XUhYžcf'Zcf'h\Y'di fdcgY'cZh\Ya d`U[]Uf]g]b['UhiUbmh]a Yž'dUm]b['Ubch\Yf'dYfgcb'hc'dYfZcfa 'Ub'UWUXYa ]WhUg\_ž'ghYU']b['cf'UWei]f]b[ Ubch\Yf'dYfgcb'g'UWUXYa ]Wk cf\_'UbX'Wcdm]b[']hz'cZYf]b['hc'Wca d'YhY'Ubch\Yf'dYfgcb'g'k cf\_'cf'gYY\_]b[ dUma YbhZcf'Wca d'Yh]b['UWUXYa ]Wk cf\_"

±bUddfcdf]UhY`W]hUh]cb.`7]h]b[ˈgci fWYg'k\]WX`\Uj Y`bchVYYb`fYUXžk]h\ci hUW\_bck`YX[]b[`h\Y`″gYWcbXUfm″gci fWY`Zfca 'k\]WX`\_bck`YX[Y`cZh\Ya`\Ug'VYYb`cVhU]bYX"

8 i d`]\WUh]cb`ffgY`Zd`U[]\Uf]ga "Ł gi Va]\h]b[`mci f`ck b`k cf\_ž]b`k \c`Y`cf`]b`dUfhžk \YfY`]h\Ug`dfYj]ci g`m VYYb`dfYdUfYX`cf`gi Va]\hYX`Zcf`Ubch\Yf`UggYgga Ybhcf\Wci fgY`UhI BGK `cf`Ubch\Yf`i b]j Yfg]\m'

7 cffYWnfYZYfYbWlb[ 'dfUWnWyg.

- DUfUd\fug]b[ ž'gi a a Uf]g]b[ ž'YggUmk f]h]b[ "UbX"h]a Y a UbU[ Ya Ybh
- 5ddfcdf]UhY'i gY'cZUbX'Uhf]Vi h]cb'Zcf'U'fUb[Y'cZa UhYf]U`g']b\$

**‰** ∪,

- i bXYfgHUbX'mci f'f][\hg'UbX'fYgdcbg]V]`]h]Yg'Ug'U'gh XYbhUhI BGK
   VY'Uk UfY'cZd`U[]Uf]ga ž'Wcdmf][\hz'I BGK 'Gh XYbh7cXY'cZ7cbXi WhUbX'5VWWdhUV`Y'I gY'cZ IBGK =7 HF Ygci fWrg Dc`]Wh

#### 5 WUXYa ]W = b Zcfa Uh cb.

: cf`YggYbhJU``gh XYbh`]bZcfa UhJcb`fY`UhJb[ 'hc.

- fYei Yghg Zcf Yl hYbg]cb/
- `UhY`gi Va ]gg]cbg`[i ]XY`]bYg/
- fYj ]Yk 'cZa Uf\_g/
- I BGK '< YU`h\ 'UbX'GUZYhm'dc`]W[Yg/
- YI Ua ]bUhcb dfcWXi fYg/
- gdYWJU``Wcbg]XYfUHjcb`]b`H\Y`Yj YbhcZ]``bYgg`cf`a ]gUXj Ybhi fY/
- gh XYbhYei ]mUbX X]gUV]`]m/
- UbX'ch\Yf'YggYbhJU`'UWUXYa ]W]bZcfa UhJcbž'gYY

\hdg.#k k k "Uffg"i bgk "YXi "Ui #W ffYbhgh XYbhg#UWJXYa ]W]bZcfa Uf]cb#dfchcWc`g![i]XY`]bYg#

.

a U[Y'7fYX]h

GmbYf[]Yg']b'GcibX'&\$%\*

7F = 7CG

7F =7 C G 'Dfcj ]XYf'7cXY. '\$\$\$-,;