



# EDST2062

5ggYgga YbhUg`DfUWjW

GYa YghYf`Hk c`#`&\$%

GWcc`cZ9XI Wjhcb`#`I BGK ``5fng`UbX`GcWU`GvYbWg

7ci fgY`Cj Yfj ]Yk

`GHUZZ7cbhUW`i8YHU]`g`

`7cbj Ybcfg`

B Ua Y	9a U]`	5j U]UV]]m	@cW]h]cb	D\cbY
8Ybb]g`5`cbnc	X"U`cbnc4 i bgk "YXi "Ui	Hi YgXUmUbX H\i fgXUm- .\$\$ !%\$\$da	F a `%, `>c\b ; ccXgY`` 6i ]X]b[	-', ) `-) \$*

GVXcc``7cbhUW`i`bZcfa Uh]cb

GVXcc``cZ9Xi W]h]cb

5f]g`UbX`GcW]U``GW]YbW]g

@Yj Y`%`z`>c\b`; ccXgY``6i ]X]b[ `f] &\$t

H. `Z`\*`%`f&t`-`', )`%`++

9.

7 ci fgY'8YHJ]`g

7 fYX]hDc]bHg`\*`

K cf\_`cUX

%) \$\`ci fg]bWi X]b[ `WUgg`WcbUWh\ci fgžfYUX]b[ gžWUgg`dfYdUfU]cbžUggYgga YbhžZ`ck`i d`UW]j ]hYgž YHW

Gi a a UfmcZ`h`Y`7 ci fgY

Gi V`YWh5fYU.`7VgUSf]a`

H\]g`Wci fgY`]g`XYg][ bYX`Zcf`mci`hc`YUfb`UVci`h`h`Ycf]Yg`UbX`dfUW]W]g`cZUggYgga Ybh`h]b]bfcXi`W]g`mci`hc` [ YbYfU`WcbW`dHg`cZUggYgga YbhUbX`a`YUgi`fYa`YbhUfY`Udd`]WUV`Y`]b`WUggfcca`ža`cfY`[ YbYfU`m`YXi`WU]cbU`žgYH]b[ g`h`k`]`XYgW]VY`h`Y`h`Ycf]Yg`UbX`h`W]b]ei`Yg`h`Uhh`UW]Yfg`UbX`h`ghXYj`Y`cdYfg`W]b`i`gY`hc`[ i`]XY`UbX`XYg][ b`h`Y]f`UggYgga YbhUbX`h`UW]b[ `dfUW]W]g`GdYW]Z]W]cd]W]g`W]j`YfYX`]bWi`XY`dfYdUfU]cb`cZUggYgga YbhUg`gžfc`Yg`cZ`h`UW]Yf`ZYXVUW\_]b`gh`XYbh`YUfb]b[ žUggYgga Ybh`a`cXYfU]cbž`h`UW]Yf`↑`X[ Ya`Ybh]cZ`gh`XYbh`YUfb]b[ `Ug`k`Y`Ug`ck`hc`g`W`fYž]b]h`fdYf]h`UbX`fYdcf]cb`gh`XYbh`UW]Yj`Ya`YbhUbX`UggYgga YbhYgi`hg`"

5 h`h`Y`WcbWi`g]cb`cZ`h`]g`Wci`fgY`h`Y`ghi`XYbhk`]`VY`UV`Y`hc`

- % " 5b`i`bXYfg]UbX]b[ `cZ`h`Y`bU]h`fY`UbX`Z`bW]cbg`cZa`YUgi`fYa`YbhUbX`UggYgga Ybh`UbX`]b]h]ffY`U]h`X`bU]h`fY`cZ`W`ff]W`i`a`ž`h`UW]b[ `UbX`UggYgga Ybh
- &" 5b`i`bXYfg]UbX]b[ `cZ`\_Ym]h`f`a`g`UbX`WcbW`dHg`cZj`U`X]m]UbX`fY`]UV`]m]UbX`h`Y]f`fc`Y`]b`h`Y`Wcb]gf]i`W]cbž`gY`YW]cbž]b]h]fdYfU]cb`UbX`i`gY`cZUggYgga Ybh]b]gf]i`a`Ybhg`
- ' " 5b`UddfYW]U]cb`cZ`h`Y`fY`U]h]`Y`gh]fYb[`h`g`UbX`]a`]U]cbg`cZ`X]ZY`fYbh]m]dYg`cZUggYgga Ybh]c`c`g`
- (" 5b`i`bXYfg]UbX]b[ `cZ`ck`hc`Wcb]gf]i`W]gci`bX`UbX`YZY`W]j`Y`h]g]g`UbX`c`h`Yf`UggYgga Ybh]b]gf]i`a`Ybhg`
- ) " 5b`i`bXYfg]UbX]b[ `cZ`gci`bX`dfUW]W]g`]b`UXa`]b]g]h]f]b[ `UggYgga Ybh]b]gf]i`a`Ybhg`#Y`g]g`UbX`g`W`f]b[`gh`XYbh]fYgdc]bgYg`
- \*" 5b`i`bXYfg]UbX]b[ `cZ`X]ZY`fYbh]Udd]f`c`UW]Yg`hc`gi`a`a`Uf]g]b[ `UbX`fYdcf]b[ `gh`XYbhUW]Yj`Ya`Ybh`
- +" 5b`i`bXYfg]UbX]b[ `cZ`gci`fW]g`cZV]Ug`UbX`Yff`c]b`UggYgga Ybh]UbX`\`ck`h`Ym`W]b`VY`a`]b]a`]gYX`

HYUW]b[ `G`h`U]h`[ ]Yg`

@YWh`fYg`dfYgYbhž`bXUa`Yb]U`WcbW`dHg`"Hi`hc]f]U`g`k`]`VY`i`gYX`Zcf`gh`XYbh]g`hc`[ U]b`XYdYf`i`bXYfg]UbX]b[`cZ`h`Y`WcbW`dHg`YUfbYX`Xi`f]b[ ``YWh`fYgž`Vm]Xc]b[ `UbX]W]W`U]h]cbgž`fYUX]b[ ž`fYZYW]cbž`fYj`Yk`]b[`fY`Yj`Ubhk`YV!g]h]gž`UbX`[ fci`d`X]gW`gg]cbgž]bWi`X]b[ `dYf`ZYXVUW\_]`H`Y`gY`UW]j`]h]Yg`k`]`Yi`h`bX`VUg]W`\_bck`YX`[ Y`hc`dfUW]W]`Udd`]WU]cbg`"Gh`XYbh]g`k`]`a`Y`Y`hž]b]Y`g]h[`U]h`UbX`X]gW`gg`WcbW`dHg`ž`dfUW]W]g`UbX`h`W]b]ei`Yg`]b]c`]YX`]b`YXi`WU]cbU`UggYgga YbhUbX`a`YUgi`fYa`Ybh`

I`bXYfg]UbX]b[ `UggYgga YbhYgi`hg`\Ug`VY`Wcb`a`Y`U`"VUg]W]g`]`Zcf`a`cXYfb!XUm]W]h]nYbg`"HYW]b]ei`Yg`UbX`WcbW`dHg`]b`UggYgga YbhUbX`a`YUgi`fYa`YbhUfY`Udd`]WUV`Y`hc`U`h`m]dYg`cZ`g\_]`g`fYei`]f]b[`]b]h]fdYfU]cb`cZ`Ubm[`]j`Yb`XU]UgY`hg`"7`cb]h]bh]UbX`UW]j`]h]Yg`]b`h`]g`Wci`fgY`k`]`dfcj`]XY`gh`XYbh]g`k`]h`h`Y`cddcf]b]m]i`c`i`bXYfg]UbX`UbX`UddfYW]U]h`k`\U]h]UggYgga Ybh]g`UbX`\`ck`]h`W]b`VY`i`gYX`hc`VY`gh`XYg][`b`UggYgga YbhUg\_]`[`]j`Yb`U`d`U]h]W`Uf`gY`h]b[`]`Hc`UW]Yj`Y`h`]gž`gh`XYbh]g`k`]`Y`Ufb`Z`bXUa`Yb]U`WcbW`dHg`UbX`Udd`]WUV`Y`h`W]b]ei`Yg`]b`dfYdUfU]cbž`UXa`]b]g]h]f]b[`UbX`g`W`f]b[ `cZUggYgga YbhYgi`hg`"

5i ghfU`]Ub`DfcZYgg]cbU` ; fUXi UhY`HYUW ]b[ `GHUbXUfXg

GHUbXUfX	8YgW]dh]cb
%"%"	8Ya cbghfUHY`_bck`YX[ Y`UbX`i bXYfghUbX]b[ `cZd\mg]WU`ZgcW]U`UbX`]bhY`YVW`U`XYj`Y`cda`YbhUbX`W\UfUW`Yf]gh]Wg`cZgh`XYbhg`UbX`\ck`h`YgY`a`UmUZZYW`YUfb]b[ "
%"&"	8Ya cbghfUHY`_bck`YX[ Y`UbX`i bXYfghUbX]b[ `cZfYgYUfW`]bhc`\ck`gh`XYbhg`YUfb`UbX`h`Y`]a`d`]W]h]cbg`Zc`f`h`UW`]b[ "
%) "%	8Ya cbghfUHY`_bck`YX[ Y`UbX`i bXYfghUbX]b[ `cZghfUHY`[ ]Yg`Zc`f`X]ZYfYbh]U]b[ `h`UW`]b[ `hc`a`YYh`h`Y`gdY`W]Z`W`YUfb]b[ `b`Y`X`g`c`Z`g`h`X`Y`b`h`g`U`W`f`c`g`g`h`Y`Z` ` `f`U`b`[ `Y`c`Z`U`V`]h`Y`g`"
`*%"	8Ya cbghfUHY`VfcUX`_bck`YX[ Y`cZghfUHY`[ ]Yg`h`U`h`W`U`b`V`Y`i`g`Y`X`h`c`Y`j`U`i`U`H`Y`h`U`W`]b[ `d`f`c`[ `f`U`a`g`h`c`]a`d`f`c`j`Y`g`h`X`Y`b`h`Y`U`f`b`]b[ "
)%"%	8Ya cbghfUHY`i bXYfghUbX]b[ `cZUggYgga`YbhghfUHY`[ ]Yg`Z`]b`W`i`X]b[ `]b`Z`c`f`a`U`UbX`Z`c`f`a`U`Z`X]U[ `bc`g`h`V`Z`c`f`a`U`h`j`Y`UbX`gi`a`a`U`h`j`Y`U`d`d`f`c`U`W`Y`g`h`c`U`g`g`Y`g`g`h`i`X`Y`b`h`Y`U`f`b`]b[ "
)"&"	8Ya cbghfUHY`Ub`i bXYfghUbX]b[ `cZ`h`Y`d`i`f`d`c`g`Y`c`Z`d`f`c`j`X]b[ `h`j`a`Y`m`U`b`X`U`d`d`f`c`d`f`]U`H`Y`Z`Y`X`V`U`W`_`h`c`g`h`i`X`Y`b`h`g`U`V`c`i`h`h`Y`j`f`Y`U`f`b`]b[ "
)"" "%	8Ya cbghfUHY`i bXYfghUbX]b[ `cZUggYgga`Ybha`cXYfU]cb`UbX`]h`g`U`d`d`]W]h]cb`h`c`gi`d`d`c`f`h`W`b`g`j`g`h`Y`b`h`U`b`X`W`c`a`d`U`f`U`V`Y`^`X[ `Y`a`Y`b`h`g`c`Z`g`h`X`Y`b`h`Y`U`f`b`]b[ "
)"("%	8Ya cbghfUHY`h`Y`W`d`U`W`]m`h`c`]b`h`Y`f`d`f`Y`h`g`h`i`X`Y`b`h`U`g`g`Y`g`g`a`Y`b`h`X`U`U`h`c`Y`j`U`i`U`H`Y`g`h`i`X`Y`b`h`Y`U`f`b`]b[ `U`b`X`a`c`X]Z`m`h`Y`U`W`]b[ `d`f`U`W`]V`W`
)") "%	8Ya cbghfUHY`i bXYfghUbX]b[ `cZU`f`U`b`[ `Y`c`Z`g`h`f`U`H`Y`[ ]Yg`Z`c`f`Y`d`c`f`h]b[ `h`c`g`h`i`X`Y`b`h`g`U`b`X`d`U`f`Y`b`h`g`W]f`Y`f`g`U`b`X`h`Y`d`i`f`d`c`g`Y`c`Z`_`Y`d]b[ `U`W`W`f`U`H`Y`U`b`X`f`Y`]U`V`Y`f`Y`W`c`f`X`g`c`Z`g`h`i`X`Y`b`h`U`W`]Y`j`Y`a`Y`b`h`

BUh]cbU`Df]cf]m5fYU`9`UVcfUh]cbg

Df]cf]m5fYUg	9`UVcfUh]cbg
5`!`5`V`c`f`[ ]bU`UbX`H`c`f`f`Y`g`G`h`f`U`]h`g`UbXYf`9`X`i`W]h]cb	,
6`!`7`U`g`g`f`c`c`a`A`U`b`U`[ `Y`a`Y`b`h`	
7`!`b`Z`c`f`a`U`h]cb`UbX`7`c`a`a`i`b]W]h]cb`H`Y`W`b`c`c`[ ]Y`g`	%&
8`!`@]h`f`U`W`h`i`U`b`X`B`i`a`Y`f`U`W`h`	-`Z`%`Z`%
9`!`G`h`X`Y`b`h`g`k`]h`G`d`Y`W`U`9`X`i`W]h]cb`B`Y`Y`X`g`	&Z*
:`!`H`Y`U`W`]b[ `G`h`X`Y`b`h`g`Z`c`a`B`c`b`!`9`b[ ]g\`G`d`Y`U`_]b[ `6`U`W`[ `f`c`i`b`X`g`	'`Z`]


8YHJ]g. 'HUg\_ '&'! 'F YZYW]cb`9ggUm!`&) \$\$`k cfXgGh XYbhg`k ]``fYW]j Y`k f]hYb`ZYXVUW\_`k ]h.]b`h.fYY  
k YY\_g`cZgi Va ]gg]cb"

I BGK 'G7 < CC @ 'C: '98I 75H€B 'FI 6F ⇨ # 998657? 'G < 99H'

98GH&\$\* &

5ggYgga YbhHUg\_ '8Yg][ b'Ub '5ggYgga Ybh6cc\_'Yh

GdYWZ]W7 f]hYf]U	''flŁ—————2fŁŁ			
I bXYfghUbX'cZħY'ei Ygh]cb'cf']ggi Y'UbX'h'Y'_'Ym'Wc'bw'dhg ]bj'c'j'YX  •				
8Ydħ'cZUbUmg]g'UbX#f'Wf]hei Y'j'b'fYgdc'bgY'hc'h'Y'hUg_				
: Ua ]]Uf]m]k ]ħ'UbX'fY'Yj bW'cZdfcZYgg]cbU'UbX#f'fYgYUfWx ']hYfUhi fY'i gYX'hc'gi ddcfhfYgdc'bgY				
Għfi Wħi fY'UbX'cf[ Ub]nUh]cb'cZfYgdc'bg				
DfYgYbhU]h]cb'cZfYgdc'bgY U'Wc'fX]b[ 'hc'Uddfcdf]UħY'UWUXYa ]WUbX ']b[i ]gh]Ww'bj Ybh]cbg				
; YbYfU'Wc'a a Ybhg#fYw'c'a a YbXUH]cbg'Zc'f'bYI h]ħ'a Y.'				

@YWħi fYf

F YWc'a a YbXYX.' ' ' #&\$'fl @DG'7F '8B' < 8Ł'

k Y][ \h]b[ ' . &\$i

'B 6. ħ.]g'h]W\_g]b'h'Y'j'Uf]ci'g'Vcl'Yg'UbX'XYg][bYX'hc'dfcj]XY'ZYXVUW'hc'gh'XYbħg/h'Ym'UfY'bch[ ]j'Yb  
 Yei'U'k'Y][\h]b'XYħ'fa]b]b[ 'ħY'fYw'c'a a YbXYX'[fUXY''8YdYbX]b[ 'cb'ħY'bUhi'fY'cZħY'UggYgga YbhUg\_ž  
 'YWħi'fYfg'a'Um'U'gc'Wc'bħYI'ħ'U'j'nY'UbX#f'Ua'YbX'ħ'YgY'gdYWZ]Ww]hYf]U''H\Y'fYw'c'a a YbXYX'[fUXY]'g  
 ħ]b]h]j'Y'cb'm'ž'gi'Va'YWħ'hc'għ]bXUfX]gU]h]cb'dfc'WYggYg'UbX'Uddfcj'U'Vmi'ħ'Y'GWx'cc'cZ9Xi'WU]h]cb  
 @YUfb]b[ 'UbX'HYUWx]b[ '7ca a ]ħY'Y''

I BGK 'G7<CC@'C: '98I 75H€B'FI 6F ⇨# 998657? 'G<99H'

98GH&\$\* &

5ggYgga YbhHUg\_ 'b!WUgg'HYgh

GdYWZJW7 f]hYfJU	''flŁ—————2fŁŁ			
I bXYfghUbX'cZħY'ei Ygh]cb'cf']ggi Y'UbX'hY' _YmVčbW'dhg ]bj'c'j YX				
8Ydħ'cZUbUmg]g'UbX#f'Wf]hei Y' ]b'fYgdcbgY'hc'ħY'fUg_				
: Ua ]]Uf]m]k ]ħ'UbX'fY'Yj bW'cZdfcZYgg]cbU'UbX#f'fYgYUfVX ]hYfUhi fY'i gYX'hc'gi ddcfhfYgdcbgY				
Għfi Wħi fY'UbX'cf[ Ub]nUh]cb'cZfYgdcbg				
DfYgYbhUh]cb'cZfYgdcbgY UW'c'fX]b[ 'hc'Uddfcdf]UħY'UWUXYa ]WUbX ]b[i ]gh]WVčbj Ybh]čbg				
; YbYfU'Vča a Ybhg#fVča a YbXUH]cbg'Zc'f'bYI h]ħa Y.'				

@YVħi fYf

F YVča a YbXYX.' ' ' #&\$'fl @DG'7F '8B'<8Ł'

k Y][ \h]b[ ' .&\$i

'B 6. ħ.]g'ħ]W\_g]b'ħY'j Uf]ci g'Vcl Yg'UbX'XYg][ bYX'hc'dfcj ]XY'ZYXVUW\_ħc'gh] XYbħg/ħYm]UfY'bch[ ]j Yb  
 Yei U'k Y][ \h]b'XYħf'a ]b]b[ 'ħY'fYVča a YbXYX'[ fUXY" 8YdYbX]b[ 'cb'ħY'bUhi fY'cZħY'UggYgga Ybh]Ug\_ž  
 'YVħi fYfg'a Um]U'gc'VčbħYI ħi U']nY'UbX#f'Ua YbX'ħYgY'gdYWZJWVf]hYf]U" 'H\Y'fYVča a YbXYX'[ fUXY:]g  
 ħ]b]Uħ]j Y'cb'mžgi Va 'YVħi'hc'għ]bXUfX]gUħ]cb'dfcVYggYg'UbX'Uddfcj U'VmiħY'GVX'cc'cZ9Xi WUħ]cb  
 @YUfb]b[ 'UbX'HYUW]b[ '7ca a ]ħY"'





Gi Va ]gg]cb`cZ5ggYgga YbhHUg\_g

Gh XYbhg`UfY`YI dYW`X`hc`di h`h`Y]f`bUa Yg`UbX`gh XYbhbi a VYfg`cb`Yj YfmdU[ Y`cZ`h`Y]f`Ugg][ ba Ybhg"

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

- K cf\_`gi Va ]hYX`%\$`hc`%-`XUmg`UZhYf`h\Y`gh]di``UhYX`XYUX`]bY

5 WUXYa ]W<c bYghmiUbX 'D`U[ ]Uf]ga

D`U[ ]Uf]ga 'g'i g]b[ 'hY`k cfXg'cf]XYUg'cZchYfg'UbX'dfYgYbh]b[ 'hYa 'Ug'mci f'ck b" 'hWUb'hU\_Y'a Ubm  
Zcfa gžZca 'XY`]VYfUh'`WXYUh]b[ 'h'UWVXYbhU`miW'cdm]b[ 'Zca 'U'gci fW'k ]h'ci hUW\_bck `YX[ Ya Ybh'

I BGK '[ fci dg'd`U[ ]Uf]ga ']bh' hY`Zc`ck ]b[ 'WUHY[ cf]Yg.

7 cdm]b[ .i g]b[ 'hY`gUa Y'cf'j Yfmg]a ]Uf'k cfXg'h' hY'cf][ ]bU`hI hcf']XYU'k ]h'ci hUW\_bck `YX[ ]b[ 'hY

- i bXYfghUbx'mci f'f][ \hg'UbX'fYgdcbg]V] ]hYg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[ ]Uf]ga ž'Wcdmf][ \hžI BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5W'WdhUV'Y'I gY'cZ I BGK '⇒H'F Ygci f'Wg'Dc`]Wn
- VY'Uk UfY'cZh'Y'ghUbxUfXg'cZVY\Uj ]ci f'YI dYW'X'cZYj Yfmcby' ]b'h'Y'I BGK 'Wca a i b]m
- `cWJh'gYfj ]Wg'UbX' ]bZcfa Uhcb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh'YgY'UfYUg'k ]`VY'ZJa ]]Uf'hc'mci ž'ch'Yfg'k ]`VY'byk "; U]b]b[ 'U'gc`X'i bXYfghUbx]b[ 'cZU`h'Y fY'UH'X'UgdYW'g'cZ9@G9'k ]`Y'd'mci 'a U\_Y'h'Y'a cghcZmci f'gh X]Yg'Uhl BGK "

[f\hd.#gi.VYWfi\]XYg"\]VfUfmi bkg "YXi "Ui #\]gY#UVci h' \]gYt](#)

F Ygci fWg

DfYgW]VYX F Ygci fWg

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