



ARTS2458

5`cb[`h\Y`G]`_F cUX. `7 cbei Yfcfgž`HfUXYfg`UbX`9I d`cfYfg

Gi a a Yf`##`&\$&\$

7 ci fgY'8YHJ]`g

7 fYX]h'Dc]bqg '*`

Gi a a UfmicZ'h\Y'7 ci fgY

Gi V'YWhi5fYU.'5Z[W'eWE fgV[W'e

H\]g'W'ci fgY'WJb'U'gc'VY'gh X]YX'Jb'h\Y'Zc`ck]b['gdYW]U'gUh]cb.'3e[S` E fgV[W'e

H\Y'G]_F cUXg'UFY'cZAYb'W'ebg]XYfYX'fc'VY'h\Y'k cfX'g'[fYUHYghbYfk cf_cZ'h'fci [\k Umg'h\Uhi]b_YX
7\]bU'fc'h\Y'A YX]fYffUbYUb'k cfX'cj Yf'UbX'UbX'gYU"H\Y'\]gfcf]WU'XYj Y`cda YbhcZ7\]bYgY'W'hi fY'UbX
Wj]]nUh]cb'WJbbchVY'gWfi h]b]nYX'k]h'ci hU'fYZYW]j Y i bXYfgfUbX]b['cZ'h'Y'7\]bYgY'9a d]fY'g'XmbUa]W

ck b`X]gWd`]bUfmig_]`g`UbX`]bHfYghg`VmVXccg]b[`hcd]Wg`mci `k]g\`h`k`cf_`cb`UbX`Vmi`g]b[`a`Yh`cXg`mci
UfY`ZJa`]Uf`k`]h."

5ggYgga Ybh

@YWfi fY'8UHg'UbX'<ci fg.'

A cbXUm&\$'>Ubi Ufm!': f]XUm&('>Ubi Ufm

A cfb]b[. '%\$. \$\$'!%&.\$\$

5ZYfbccb. '&.\$\$!'(. \$\$'

Hi hc]U'XUHg'UbX'\ci fg

Hk c!\ci f'hi hc]U'. '&, 'cf'&- '>Ubi Ufm

⊕'h]g'hi hc]U'gYgg]cbžmci f'[fci d'k]''VY'dfYgYbh]b['hY'[fci d'k cf_'hUhmci '\Uj Y'dfYdUfYX'cb'hY Ugg][bYX'hcd]W'5@@gh XYbhgž']bW! X]b['k YV!Ybfc''YX'ghi XYbhgž'a i ghUfhYbX'h]g'&!\ci f'gYgg]cb d\mg]W'`m'

5ggYgga YbhHUg_g'

5ggYgga YbhHUg_	K Y][\h	8i Y'8UH	Ghi XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
F YgYUfW'YggUm') \$i	\$+##\$&#&\$&\$ '%\$. \$\$'DA	%ž&ž ž)
; fci d'dfYgYbh]cb'	&) i	Bch5dd']WVY	%ž ž(
C b]bY'hYgh	&) i	##\$&#&\$&\$ '%% \$\$'5A	&ž ž)

5ggYgga Ybh8YHJ]g

5ggYgga Ybh% 'F YgYUfW'YggUm

GHUfhXUH'. 'Bch5dd']WVY

@Yb[h. ' '\$\$\$'k cfXg'f%\$i 'YYk UmŁ

8YHJ]g. 'Ghi XYbhg'k f]h'Ub'YggUmVUgYX'cb]bXYdYbXYbhfYgYUfW'fW'' '\$\$\$'k cfXgŁ': YYXVUW_j]U]bX]j]Xi U'Wta a Ybhg'UbX'fi Vf]W'

5XX]h]cbU'XYHJ]g.

8YHJ]g'cb'A ccXY

5ggYgga Ybh&.'; fci d'dfYgYbh]cb

GHUfhXUH'. 'Bch5dd']WVY

8YHJ]g. 'Ghi XYbhg']b'U'cWfhX'[fci dg'dfYgYbhcb'hY'Ugg][bYX'WcbhYbhfUddfci "'&\$- '&) a]bi hYgŁ': YYXVUW_j]U']bX]j]Xi U'Wta a Ybhgž'fi Vf]WUbx']b!WUgg'X]gW gg]cb

5XX]h]cbU`XYHJ]g.

5@@gh XYbhgž]bWl X]b[`Vch`ZJWY!hc!ZJWY`UbX`k YV!Ybfc`YX`gh XYbhgžk]`VY`Ugg][bYX`hc`U`[fci d`UbX`mci
k]`Z]bX`mci f`[fci d`a Ya VYfg`UbX`hY]f`WcbhUWYhYa U]`cb`A ccX`Y`" #]g`mci f`fYgdcbg]V]`]mihc`[Yh]b`hci WX
k]h`cbY`Ubch`Yf`UbX`XYW]XY`k \Yb`UbX`\ck`hc`Wca a i b]WUHY`Ua cb[ghmci fgY`j Yg`gc`h`Uhmci`W]b`g]Ufh

F Ygci fWg

DfYgW]VYX`F Ygci fWg`

5`a UXY`Uj U]UV`Y`cb`A ccX`Y

F YWca a YbXYX`F Ygci fWg

5`a UXY`Uj U]UV`Y`cb`A ccX`Y

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

H\]g`Wci fgY`]g`Zcfa U`mYj U`i Uh]X`h`fci [\ `A m9I dYf]YbW": i fh`Yf`XYj Y`cda YbhUbX`UX↑gha YbhUfY`a UXY
According to student feedback and learning experience.

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

Hi fb]hb`Gi Va]gg]cb

zmc i`YbWci bhYf`U`dfcV`Ya`k` \Yb`U`H`Ya` dh]b[`hc`gi Va]hmc i`f`Ugg][ba YbhHfci [\`Hi fb]hbzd`YUgY
H`Y`d`l`cb`Y`9I`H`f`b`U`G`i` ddcfhcb`-`'` ,`)` " ` ' ` ' ` %cf`Ya` U]`H`Ya` `cb`YI`H`f`b`U`H`f`gi` ddcfh4` i` b`gk` "YXi` "Ui` "Gi` ddcfh
`l`ci` fg`UfY` ,` .`\$\$Ua` -`-%\$.`\$\$da` `cb`k` YY`_`XUmg`U`b`X`-` .`\$\$Ua` -`i`)` .`\$\$da` `cb`k` YY`_`YbXg`f`l` *)` `XUmg`U`m`Y`U`f`l`" zmc i
UfY`i` bUV`Y`hc`gi Va]hmc i`f`Ugg][ba YbhXi`Y`hc`U`ZU`i`h`k`]H`Hi`fb]hb`mc i`a`Um`U`dd`m`Z`f`U`b`YI`H`f`b`g]cb`z`Vi`h`mc i
a`i`gh`f`Y`H]b`mc i`f`h]W`Y`h`bi`a`VY`f`Z`ca` `9I`H`f`b`U`G`i` ddcfhfU`cb[`k`]H`U`b`m`c`H`Y`f`f`Y`j`U`b`h`X`c`W`a`Y`b`h`g`l`hc`
]b`W`i`X`Y`U`g`Y`j`]X`Y`b`W`hc`gi` ddcfhmc i`f`YI`H`f`b`g]cb`U`dd`]W`h]cb" zmc i`Ya`U]`9I`H`f`b`U`G`i` ddcfhmc i`k`]`
Ui`hc`a`U`h]W`U`m`f`Y`W`]j`Y`U`h]W`Y`h`bi`a`VY`f`z`Vi`h]Z`mc i`H`Y`d`l`cb`Y`mc i`k`]`b`Y`Y`X`hc`gd`Y`W`Z]W`U`m`U`g`_`Z`f`cb`Y`"
Hi`fb]hb`U`gc`d`fc`j`]X`Y`g`i`d`X`U`H`Y`g`i`cb`H`Y`j`f`g`m`g`H`Ya` `g`h`U`h`g`i`cb`H`k`]H`Y`f`"

; YbYfU`mz`UggYgga YbhHUg_g`a`i`gh`V`Y`gi`Va`]H`Y`X`Y`Y`W`f`cb]W`U`m`j`]U`Y`]H`Y`f`Hi`fb]hb`cf`U`A`cc`X`Y`
Ugg][ba Ybh`H`b`]b`g`h`U`b`W`g`k` \Y`f`Y`H`l`g`]g`b`c`h`i`d`c`g`g]V`Y`Z`]h`k`]`V`Y`g`h`U`H`X`i`cb`mc i`f`W`ci`fg`Y`g`A`cc`X`Y`g`]H`Y`k`]H`
U`H`f`b`U`h]j`Y`gi`Va`]gg]cb`X`Y`H]g"

: cf`]b`Z`c`fa`U`h]cb`cb`l`ck`hc`gi Va]hUgg][ba Ybh`g`cb`]b`Y`j`]U`A`cc`X`Y`.\`h`d`g`#`g`h`X`Y`b`h`i`b`gk`"YXi`"Ui`#`ack`!
gi Va]hUgg][ba Ybh`a`cc`X`Y`

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 gZ`Zca `XY`]VYfUHY`WXYU]b[`hc`UWV]XYbhU`mW`dm]b[`Zca `U`gci fW`k]h`ci hUW_bck`YX[Ya Ybh`

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

7 cdm]b[.`i g]b[`hY`gUa Y`cf`j Yfmg]a]Uf`k cfXg`hc`hY`cf][]bU`hYI`hcf]XYU`k]h`ci hUW_bck`YX[]b[`hY`
gci fW`cf`i g]b[`ei`chU]cb`a Uf`g" `H\]g`U`gc`Udd`]Yg`hc`]a U[YgZ`UfhUbX`XYg][`b`dfc`YWgZ`Ug`k Y`Ug`
dfYgYbhU]cbg`k \YfY`gca YcbY`dfYgYbh]`UbchYf`g`]XYUg`cf`k cfXg`k]h`ci hWYX]h`

hUddfcdf]UHY`dUfUd`fUg]b[.`7`U`b[]b[`U`ZYk`k`cfXg`UbX`d`fUgYg`k`\]Y`a`cghmiFYhU]b]b[`hY`cf][]bU`
ghfi`W`fY`UbX`#`f`dfc[`fYgg]cb`cZ]XYUg`cZ`hY`cf][]bU`Z`UbX`]bZcfa`U]cb`k]h`ci hUW_bck`YX[Ya Ybh`H\]g`U`gc`
Udd`]Yg`]b`dfYgYbhU]cbg`k \YfY`gca YcbY`dUfUd`fUgYg`UbchYf`g`]XYUg`cf`k cfXg`k]h`ci hWYX]hU`bX`hc`
d]YW]b[`hc[Y`hYf`ei`chYg`UbX`dUfUd`fUgYg`]bhc`U`bYk`k`\c`Yz`k]h`ci hUddfcdf]UHY`fYZYfYbW]b["

7 c`i g]cb.`k`cf_]b[`k]h`chYfg`Vi`hdUgg]b[`cZ`hY`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`UbchYf`gh`XYbhVYZc`fY`hY`Xi`Y`XUHY`Zc`f`Zc`f`hY`di`fdcgY`cZ`hY`a

- i bXYfghUbx'mci f'f][\hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wcdmf][\hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5Ww'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci fW'g'Dc`]Wm
- 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'j]bZcfa Uh]cb'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 "'

[\hd. #gj V'YWf i \]XYg" \]VfUfm'i bgk "YXi "Ui #' \]gY#JVci h' \]gY](#)

Ya]WbZcfa Uh]cb`

gYbh]U`ghi XYbh]bZcfa Uh]cb`fY`Uh]b[`rc.

fYei Yghg`ZcfYI hYbg]cb/