# **CVEN9531**

lbgUhifUhYX`Gc]`AYWNUb]Wg



CVEN9531 // Term 2, 2022 // published at 03-06-2022 © UNSW Sydney, 2022

(fi)

# 7 ci fgY<sup>-</sup>Cj Yfj ]Yk

## GHJZZ7cbHJWh78YHJ]`g

#### 7cbj Ybcfg

BUa Y	9a U]`	5j U]`UV]`]hm	@cWUh]cb	D∖cbY
BUggYf"?\U`]`]	<u>b"_\U`]`]4_i bgk "YXi "Ui_</u>			

#### GWXcc``7cbHJWhi=bZcfaUh]cb

<u>9b[]bYYf]b[`Ghi XYbhGi ddcfhGYfj]WYg</u>`-'H\Y`Bi WYi g`!`Ybfc`a Ybhž'dfc[fYgg]cb`W\YW\_gž'WUg\`fYei Yghgž Wci fgY`]ggi Yg`cf`dfc[fUa !fY`UhYX'ei Yf]Yg`

<u>9b[]bYYf]b[`⊕Xi ghf]U``HfU]b]b[</u>\_-`⊕Xi ghf]U``hfU]b]b[`ei Ygh]cbg`

I BGK 'Gh Xm5VfcUX'-gh XmUVfcUX'gh XYbhYbei ]f]Yg'fZcf']bVci bX'gh XYbhgŁ'

<u>IBGK '91 W.Ub[Y</u>'-'ghi XYbhYI W.Ub[Y'Ybei ]f]Yg'fZcf']bVci bX'ghi XYbhgŁ'

I BGK :: i h fY'Gh XYbhg'-'dchYbh]U``gh XYbhYbei ]f]Yg'Y"["'UXa ]gg]cbgž'ZYYgž'dfc[fUa gž'WfYX]hHfUbgZYf'

#### D\cbY<sup>.</sup>

- fŽ\*%\*&Ł-',)\*,)\$\$°-BiWYig'GhiXYbh<iV
- fŽ\*%`&Ł'-',)`+\*\*%`**-**`9b[]bYYf]b[`⊕Xi gHf]U``HfU]b]b[`
- fŽ\*%`&Ł'-',)`'%+-`<mark>-</mark>`IBGK `GhiXm`5VfcUX`UbX`IBGK `9IWXUb[Y`fZcf`]bVcibX`ghiXYbhgŁ`

7cifgY<sup>·</sup>8YHJ]`g

lb]hg`cZ7fYX]h`\*`

Gi a a UfmcZh\Y'7ci fgY

H\]g`Wci fgY`dfcj ]XYg`U`Z bXUa YbHJ``i bXYfgHJbX]b[ `cZh\YcfYh]WJ``UbX`Udd`]YX`i bgUh fUHYX`gc]`

@YUfb]b['CiHWcaY	95 GHJ[Y %7ca dYhYbW]Yg	
	D9'"(ŽD9'")ŽD9'"*	

### HYUWX]b[ GhfUhY[]Yg

H\]gʻWci fgYʻWcbg]ghgʻcZʻYWi fYgžhi hcf]Uʻgž\UbX!]bʻUgg][ ba Ybhg"`≢ik ]``dʻUWYʻYa d\Ug]gʻcbʻdfcVʻYa gcʻj ]b[ ˈg\_]`gʻUbXʻUdd`]WUhjcbʻhcʻfYU``WUgYʻghi X]Yg"

## 5ggYgga Ybh

5ggYgga YbhHJg_	K Y][∖h	8iY'8UHY	7cifgY`@YUfb]b[ CihWcaYgʻ5ggYggYX
%" <sup>-</sup> 5gg][ba Ybhg	&) ı	Bch5dd`]WUV`Y	%ž' &ž' ' Ž' (
&"`: ]bU``9I Ua	) \$I	Bch5dd`]WUV`Y	%ž`&ž''
' "'Hi hcf]U`g	&) ı	Bch5dd`]WUV`Y	%ž' &ž' ' Ž' (

## 5ggYgga Ybh% 5gg][ba Ybhg

 $8YUX^{b}V'Z_cf'UVgc^{i}H'Z_J^{i}. Hkc'kYY_g'VYZ_cfY'HY'Z_HY'Z_bU''Y|Ua$ 

Ghi XYbhgʻk ]```VY`[]j Yʻhk cʻUgg][ba YbhgʻhcʻUggYggʻh\Y`YUfb]b[ʻci hWca YgʻZfca `YUW\``YWhi fYʻUbXʻghi XYbhgfi UV]`]hm`]bʻUdd`m]b[`df]bW]d`YgʻcZi bgUhi fUhYXʻgc]``a YW\Ub]WgʻhcʻfYU```]ZYʻYb[]bYYf]b[`dfcʻYWhgʻ]bʻUʻhYUa Ybj]fcba Ybh'`6ch\`Ugg][ba Ybhgʻk]```VY`a Uf\_YX`UbXʻfYhi fbYX'hcʻh\Yʻghi XYbhgʻUʻcb[`k]h\`h\Y`fY`Yj Ubh ZYYXVUW\_`Uh`YUghZci f`k YY\_gʻdf]cf`hcʻh\Y`XUhYʻcZh\Y`Z]bU``YI Ua g"

# 5 HYbXUbW/FYei]fYaYbhg

Ghi XYbhgʻUfYʻghfcb[`mʻYbWci fU[YX'hcʻUhhYbX'U```WUggYgʻUbX'fYj]Yk ``YWhi fYʻfYWcfX]b[g"

# Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

D`YUgY`fYZYf`hc`h\Y`A ccX`Y`dU[Y`cZh\Y`Wci fgY`Zcf`Z fh\Yf`[i]XUbWY`cb`UggYgga Ybhigi Va]gg]cb"

#### I BGK `\Ug`U`gHUbXUfX``UhY`gi Va ]gg]cb`dYbU`hmcZ

 )ı 'dYf'XUmž'Zcf'U``UggYgga Ybhg'k \YfY'U'dYbU`hm'Udd`]Ygž'WUddYX'Uh'Z]j Y'XUmg'f%&\$'\ci fgŁz'UZYf k \]W\'U'ghi XYbh'WUbbchigi Va ]h'Ub'UggYgga Ybhž'UbX'bc'dYfa ]hhYX'j Uf]Uh]cb"

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

6Yk UfY\*\*5b\*Ugg][ba Ybhh\Uh]bWi XYg\*d\*U[]Uf]gYX\*a UhYf]U\*\*k]\*\*\*fYWY]jY\*U\*\$i=\*\*\*U]\*žUbX\*ghi XYbhg\*k \c d\*U[]Uf]gY\*a UmZu]\*\*h\Y\*Wci fgY\*\*\*Ghi XYbhg\*k \c\*d\*U[]Uf]gY\*UfY\*U\*gc\*\*]UV\*Y\*hc\*X]gW]d\*]bUfmUWf]cbž\*]bWi X]b[ YI Wi g]cb\*Zfca \*Ybfc\*a Ybh

D`U[]Uf]ga `]g`h\Y`i gY`cZUbch\Yf`dYfgcb'g`k cf\_`cf`]XYUg`Ug`]Zh\Ymk YfY`mci f`ck b"`K \Yb`]h]g`bYWyggUfmcf XYg]fUV`Y`hc`i gY`ch\Yf`dYcd`Y'g`a UhYf]U``mci `g\ci `X`UXYei UhY`mUW\_bck `YX[Y`k \cgY`k cfXg`cf`]XYUg`h\Ym

## 5ddYbX]I. '9b[]bYYfg'5ighfU`]U'f195ŁDfcZYgg]cbU`'9b[]bYYf'7cadYhYbWm GHJbXUfX

Dfc[fUa +bhybXYX @YUfb]b[ Cihwca Yq ? bck `YX[ Y 'UbX'q\_]``'VUqY D9%"%7cadfY\Ybq]iYžh\YcfmVUqYXibXYfqHUbX]b[cZh\YibXYfd]bb]b[bUhifU`UbX d/mg]WU`:gW]YbWYg`UbX`h\Y`Yb[]bYYf]b[`Z bXUa YbHU`g`Udd`]WUV`Y`hc`h\Y`Yb[]bYYf]b[`X]gW]d`]bY D9%"& 7 cbW/dhiU`i bXYfqHUbX]b[ cZh\Y`a Uh\Ya Uh\Wažbi a Yf]WU`UbU`mg]qžqHUh|qh\WažUbX Weadi hYf'UbX']bZcfaUh]cb'gW]YbWYg'k\]WX'i bXYfd]b'h\Y'Yb[]bYYf]b['X]gW[d`]bY D9%" + + XYdh i bXYfqHbX]b[ cZqdYWU`]qhVcX]YqcZ bck YX[Yk]h bhY'Yb[]bYYf]b[ X]qWd`]bY D9%"('8]qWFfba YbhcZ\_bck YX[YXY]Ycda YbhUbXfYqYUfWXX]fYWfcbg'k ]h.jb'h.Y Yb[]bYYf]b[`X]gWJd`]bY D9%") ? bck `YX[Y`cZYb[]bYYf]b[ `XYg][b`dfUW]WY`UbX`WcbhYl hi U``ZJW/cfg`]a dUWf]b[ `h\Y Yb[]bYYf]b['X]qW[d`]bY D9%"\* I bXYfqHJbX]b[ cZh\Y'qWcdYždf]bW]dYgžbcfa gžUWVci bHJV]]]h]Yg'UbX'Vci bXg'cZ qi qHU]bUV`Y`Yb[]bYYf]b[`dfUWf\WY`]b`H\Y`qdYW[Z]WX]qW[d`]bY 9b[]bYYf]b['Udd`]WUhcb'UV]`]hm D9&"%5dd`]WUhjcb`cZYghUV`]g\YX'Yb[]bYYf]b[`a Yh\cXg`hc`Wca d`YI 'Yb[]bYYf]b[`dfcV`Ya qc`i]b[ D9&"&: `i YbhUdd`]WUhcb'cZYb[]bYYf]b[ 'hYWkb]ei Ygžhcc`g'UbX'fYgci fWfg D9&" 5dd`]WUhjcb`cZgmghYa UhjWYb[]bYYf]b[`gmbh\Yg]g`UbX`XYg][b`dfcWYggYg D9&"( '5dd`]WUHcb'cZgmghYa UHWUddfcUWXYg'hc'h\Y'WcbXi WiUbX'a UbU[Ya YbhcZYb[]bYYf]b[ dfc Y₩q DfcZYgg]cbU`UbX dYfgcbU`Uhf]Vi hYg D9' "%'9h\]WU``WcbXi WiUbX'dfcZygg]cbU``UVWci bHUV]`]hm D9' "&'9ZYW) Y'cfU`'UbX'k f)HYb'Wca a i b)WU) cb']b'dfcZygq]cbU`'UbX'`UmXca U]bg D9' "' 7 fYUhi Yžibbci Uhi YUbX dfc!UWi YXYa YUbci f D9' "( 'DfcZygg]cbU``i gY'UbX'a UbU[ Ya YbhcZ]bZcfa Uhcb D9' ") CfXYfma UbU[Ya YbhcZgYZzUbX dfcZygq]cbU`WcbXi Wh D9' "\* 9ZYWAJ Y HYUa 'a Ya VYfg\]d UbX HYUa 'YUXYfg\]d