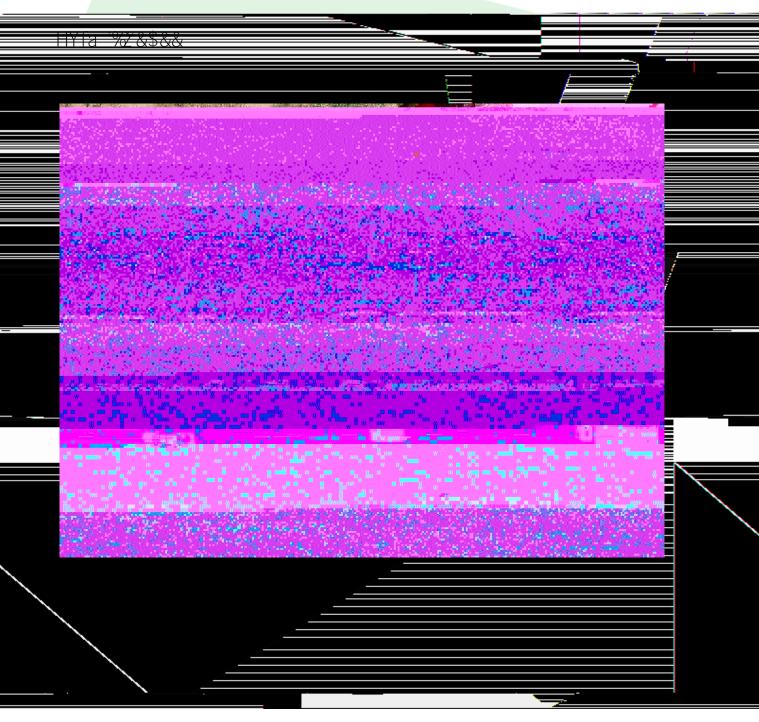
# **CVEN9422**

HfUZJWA UbU[Ya YbhUbX'7cbHc`



CVEN9422 // Term 1, 2022 // published at 09-02-2022 © UNSW Sydney, 2022

VI 13

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

## GHJZZ7cbHJWh78YHJ]`g

#### 7cbj Ybcfg

| B Ua Y        | 9a U]`                               | 5j U]`UV]`]m           | @cWUhjcb               | D∖cbY |
|---------------|--------------------------------------|------------------------|------------------------|-------|
| A YYUX GUVYf] | <u>a YYUX"gUVYf]4 i bgk "YXi "Ui</u> | 6mUddc]bha Ybh<br>cb`m | 7J9B <sup>-</sup> %\$( |       |

#### GWXcc``7cbHJWhi=bZcfaUhjcb

<u>9b[]bYYf]b[\_`Ghi XYbhGi ddcfhGYfj]]Wrg</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[`+bXi ghf]U``HfU]b]b[</u>`-`+bXi ghf]U``HfU]b]b[ `ei Ygh]cbg`

<u>I BGK 'Gh Xm5VfcUX</u>'-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'

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

#### D\cbY'

fŽ\*%\*&Ł-',)\*,)\$\$\*-BiWYig'GhiXYbh<iV\*

fŽ\*%`&Ł'-',)`+\*\*%`**-**`9b[]bYYf]b[`⊕Xi gHf]U``HfU]b]b[`

fŽ\*%`&Ł'-',)`'%+-`<mark>-</mark>`IBGK `GhiXm5VfcUX`UbX`IBGK `9IWXUb[Y`fZcf`]bVcibX`ghiXYbhgŁ`

# 7cifgY<sup>·</sup>8YHJ]`g

## I b]hg`cZ`7 fYX]h`\*`

## Gi a a UfmcZh\Y'7ci fgY

HfUZJWYb[]bYYf]b['dfcZYgg]cbU'g'UfY'HUg\_YX'k]h\'h\Y'fYgdcbg]V]`]micZYbgi f]b['h\Y'gUZY'UbX'YZJW]Ybh a cj Ya YbhcZdYcd`Y'UbX'[ccXg'h\fci [\'h\Y'dfcj ]g]cb'UbX'a U]bhYbUbW'cZhfUbgdcffUh]cb'gmghYa g"'H\Y YZYWf] YbYgg'cZh\Y'hfUbgdcfhigmghYa 'XYZ]bYg'h\Y'YWcbca ]WXYj Y`cda YbhUbX'ei U`]micZ`]ZY'Zcf'h\Y'Ybh]fY Wca a i b]m'''H\]g'Wci fgY'cZYfg'gh XYbhg'Ub'UXj UbWYX'i bXYfgHUbX]b['cZh\Y'Z]Y`X'cZhfUZ]Wa UbU[ Ya Ybh UbX'Wcbhfc`ž'k]h\'U'ZcW'g'cb'hfUZ]WZck 'h\YcfmUbX'W\UfUWYf]gh]Wg'cZVch\'a chcf]gYX'UbX'bcb!a chcf]gYX HUZ]W'H\Y'Wci fgY'Wcj Yfg'hcd]Wg']bWi X]b['Z bXUa YbHU'g'cZhfUZ]WZck 'h\YcfmUbX'UbU'mg]gžei Yi]b[ h\Ycfmžg\cW\_k Uj Y'h\YcfmUbX'UbU'mg]gž'a]WfcgWcd]Wg]a i`Uh]cbž'XYg][ b'UbX'cdYfUh]cbg'cZi bg][ bU`]gYX UbX'g][ bU']gYX']bHYfgYWf]cbgž'UbX'bYfk cf\_'hfUZ]WZck "

#### 7 ci fgY 5]a g

H\]gʻWcifgY`]gʻXYg][bYX`hc`XYjY`cd`ghiXYbhgfiibXYfghUbX]b[žg\_]``gʻUbX`\_bck`YX[Y`]b`h\Y`Z]Y`X`cZhfUZ]W UbX`hfUbgdcfhYb[]bYYf]b["`K\_\]`Y`h\Y`ZcWig`cZh\Y`WcifgY`]gʻWYUf`mcb`h\Y`XYg][bž`UbU`mg]g`UbX a UbU[YaYbhcZfcUX`hfUbgdcfhZUW]`]h]Yg`cb`Vch\`h\Y`gidd`mUbX`XYaUbX`g]XY"

#### 7cifgY`@YUfb]b[`CiHWcaYg

5ZhYfigi WWYggZ ``mWcad`Yh]b[ ih\]giWcifgYžimci ig\ci `XiVYiUV`Yihc.

| @YUfb]b[`CiHWcaY   | 95 GHJ[Y % 7ca dYhYbW]Yg |
|--|--------------------------|
| %"`8Yg\#]VY`fY`UH]cbg\]d`VYHkYYb`ZbXUaYbHU``HfUZ]\WZck<br>dUfUaYHYfg             | D9%%ZD9%%ZD9%" ZD9%"(    |
| &"`8YgWf]VY`W ffYbhhYW\bc`c[]Yg`VY]b[`i gYX`]b`HfUZ]W<br>a UbU[Ya YbhUbX`Wcblfc` |                          |
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# 5ggYgga Ybh

| 5ggYgga YbhHJg_             | K Y][ \h | 8iY`8UHY   | 7cifgY`@YUfb]b[<br>CihWcaYgʻ5ggYggYX |
|-----------------------------|----------|--|--------------------------------------|
| %"`5bU`mg]b[`fYU``; DG`XUHU | %\$I     | %#\$'#&\$&&`\$).\$\$`DA  | 'Ž)                                  |
| &"`A ]₩fc!g]a i `Uhjcb      | %) I     | &&#\$(#&\$&&`\$).\$\$`DA</td><td>' Ž'(Ž')Ž'*Ž'+</td></tr><tr><td>' "'C b`]bY E i ]nnYg</td><td>%) I</td><td>Bch5dd`]WJV`Y</td><td>%ž`&ž`'ž`(ž`)ž`*ž`+</td></tr><tr><td>("'7ca di hYf``UV</td><td>%\$I</td><td>Bch5dd`]WUV`Y</td><td>&ž' Ž (Ž) Ž * Ž +</td></tr><tr><td>) "`: ]bU``YI Ua</td><td>) \$I</td><td>Bch5dd`]WUV`Y</td><td>%ž &ž''ž') ž'*</td></tr></tbody></table> |                                      |

## 5ggYgga Ybh% 5bU`mg]b[ fYU`; DG XUHU

Gi Va ]gg]cb`bchYg.`5`g]b[`Y`D8: `a i gh'VY`i d`cUXYX`hc`A ccX`Y"

8i Y`XUHY. % #\$' #&\$&&`\$) .\$\$`DA

5gg][ ba Ybh%k ]``VY`fY`YUgYX`Xi f]b[ `k YY\_'' `UbX`k ]``VY`Xi Y`cb`% # `fk YY\_') Ł"`H\]g`Ugg][ ba YbhZcW gYg

i bZcfYgYYb'WjfW a głUbWfg'a i ghUdd`mZcf'gdYWjU`'Wcbg]XYfUłjcbg'ł\fci [\`ł\Y'GW\cc``cZ7]j]`'UbX 9bj]fcba YbłU`'9b[]bYYf]b[''UbX'WcbłUWił\Y'Wci fgY'WccfX]bUłcf"

H\]g`]g`bchU`Hi fb]h]b`Ugg][ ba Ybh

#### 5ggYgga Ybh (. '7ca di hYf ``UV'

Gi Va ]gg]cb bch/g. 7 ca di h/f``UV dUfh]W]dUh]cb UbX A ccX`Y!VUgYX gi Va ]gg]cb

: ci f Wca di hYf ^UV gYgg]cbg k ]``VY UXa ]b]ghYfYX ]b k YY\_ &ž( ž+ UbX - `fYUWX k cfh &") + E" Ghi XYbhg k ]``VY HUg\_YX hc WcbXi WiXUHU UbU`mg]g cf fi b U`g]a i `Uh]cb a cXY `fY Yj Ubhhc h Y Wci fgY `YUfb]b[ `cV YWfj Yg" H\Y ghi XYbhg' k cf\_ k ]``VY UggYggYX VUgYX cb hYWXb]WU``UVW fUWmUbX dUfh]W]dUh]cb ]b h Y ``UV UWfj ]h]Yg" Ghi XYbha i ghi d`cUX Yj ]XYbWY cZh\Y]f``UV k cf\_ cb A ccXY 'Uhh\Y YbX cZYUWX ``UV gYgg]cb"

H\]g`]g`bchU`Hi fb]h]b`Ugg][ ba Ybh

#### 5ggYgga Ybh) : ]bU`Yl Ua

Gi Va ]gg]cb bchYg. A ccX Y! VUgYX gi Va ]gg]cb

5 & \ci f`cdYb!Vcc\_`cb`]bY`A ccX`Y!VUgYX`ZbU`YIUa `k]``VY`UXa]b]gHYfYX`UhH\Y`YbX`cZh\Y`gYaYgHYf" H\Y`YIUa `k]``VY`W`a i`Uhj Y`UbX`]bHYbXYX`hc`UggYgg`h\Y`gh XYbhg`\_bck `YX[Y`cZh\Y`aUhYf]U``WcjYfYX h\fci [\ci hH\Y`Ybh]fY`Wci fgY"`5`aUf\_`cZUh`YUgh(\$i `]b`h\Y`ZbU``YIUa`]g`fYei ]fYX`VYZcfY`h\Y`ch\Yf UggYggaYbhg`UfY`]bWi XYX`]b`h\Y`ZbU``aUf\_"

<i fX`Y`fYei ]fYa Ybh

# 5 HYbXUbW/FYei]fYaYbhg

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

# FYgci fWfg

## FYWca a YbXYX FYgci fWYg

• <u>島山[ftm者合了 fttf=</u>i bXUa YbH)`g`cZHfUbgdcffU均建之U遂》HfUZJWC dYfU均cDgžDY年[Ua



C Y fžG

# 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'miUdd`]Ygž'WUddYX'Uh'Z]j Y'XUmg'f%&\$'\ci fgŁz'UZh'f k \]W\'U'ghi XYbh'WUbbchigi Va ]hUb'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

## 5WUXYa]W=bZcfaUh]cb

: ]bU``9I Ua ]bUh]cbg.

: ]bU``YI Ua g`]b`H%&\$&&`k ]```VY`\Y`X`cb`]bY`VYIk YYb`&-I\`5df]``!`%&I\`A Um`]bWi g]j Yž'UbX`gi dd`Ya YbIUfm YI Ua g`VYIk YYb`&' fX`!`&+I\`A Um`]bWi g]j Y"`Vci `UfY`fYei ]fYX`Ic`VY`Uj U]`UV`Y`cb`I\YgY`XUIYg"`D`YUgY`Xc

## 5ddYbX]I. '9b[]bYYfg'5ighfU`]U'f95EDfcZYgg]cbU`'9b[]bYYf'7cadYhYbWm GHJbXUfX

Dfc[fUa +bhybXYX @YUfb]b[ Cihwca Yq ? bck `YX[ Y 'UbX'q\_]``'VUqY D9%"%7ca dfY\Ybq]i Yž'h\YcfmVUqYX'i bXYfqHUbX]b[ 'cZh\Y'i bXYfd]bb]b[ 'bUhi fU`'UbX  $d mg]WU^{g}UbX'hY'Yb[]bYYf]b['Z bXUa YbHU^{g}Udd^WUVY'hc'hY'Yb[]bYYf]b['X]gW[d^bYf]gW[d^bYf]b['X]gW[d^bYf]b['X]gW[d^bYf]b['X]gW[d^bYf]gW[d^bYf]b['X]gW[d^bYf]b['X]gW[d^bYf]b['Y]gW[d^bYf]b['Y]gW[d^bYf]b['X]gW[d^bYf]b['Y]gW[d^bYf]g$ D9%"&'7cbW/dhU`ibXYfqHJbX]b['cZh\Y'aUh\YaUhWažbiaYf]WU`UbU`mq]qžqHJhjqhWqžUbX Wca di hYf'UbX']bZcfa Uh]cb'gW]YbWYg'k \]W\'i bXYfd]b'h\Y'Yb[]bYYf]b['X]qW]d`]bY D9%" ===!XYdh\ i bXYfqHbX]b[ cZqdYWU`]qhVcX]YqcZ bck YX[Yk]h\]b'h\YYb[]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]qWd`]bY D9%"\* 1 bXYfqHJbX]b[ 'cZhXY'qWcdYž'df]bW]d`Yqž'bcfa qž'UWVci bHJV]`]h]Yq'UbX'Vci bXq'cZ qi qHU]bUV`Y`Yb[]bYYf]b[`dfUWfWY`]b`H\Y`qdYW[Z]WX]qW[d`]bY 9b[]bYYf]b['Udd`]WUhcb'UV]`]hm D9&"%5dd`]WUhjcb`cZYgHUV`]g\YXYb[]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`]WUHcb'cZgmgH/a UHWyb[]bYYf]b['gmbH,Yg]g'UbX'XYg][b'dfcW/ggYg D9&"( '5dd`]WUhjcb'cZgmghYa UhjWUddfcUWXYg'hc'h,Y'WcbXi WhUbX'a UbU[Ya YbhcZYb[]bYYf]b[ dfc YWg DfcZYgg]cbU`UbX dYfgcbU`Uhf]Vi hYg