1. I checked curl on WSL by using: valgrind --leak-check=full --show-leak-kinds-all curl This did not find any memory leaks of any sort with the curl command, and the same thing happened when checking curl https://www.cnn.com, but above the summary section of valgrind a lot of output was shown in powershell.

```
$ valgrind --leak-check=full --show-leak-kinds=all curl
hugh@hugh-PC:
==551== Memcheck, a memory error detector
==551== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==551== Using Valgrind-3.13.0 and LibVEX; rerun with -h for copyright info
==551== Command: curl
==551==
==551== error calling PR_SET_PTRACER, vgdb might block
curl: try 'curl --help' or 'curl --manual' for more information
==551==
==551== HEAP SUMMARY:
==551==
           in use at exit: 0 bytes in 0 blocks
==551==
          total heap usage: 4,609 allocs, 4,609 frees, 273,220 bytes allocated
==551==
==551== All heap blocks were freed -- no leaks are possible
==551==
==551== For counts of detected and suppressed errors, rerun with: -v
==551== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
hugh@hugh-PC:
                                     $
```

"ads-person", "content-person-prof", "content-person", "measure-ads", "measure-content", "measure-market", "product-develop"]

;)))(document);//scriptx/scriptx(function(\$){\$(document).onZonesAndDomReady(function() {if (Modernizr.android === true) {\$('head').append('Clink herfe")/Cdn.cnn.com/cnn/.e/ing /3.0/global/misc/cnn-logo.png" rel="icon" sizes="192x192"");}));(jouery));//scriptx/script data-obcty!function(_window obapi.marketerion() {unidow.obApi.marketerion() {unidow.

Using Valgrind on the word count command, it seems the program has no issues at all with memory and output the correct numbers.

```
$ valgrind --leak-check=full --show-leak-kinds=all wc index.html
]==554== Memcheck, a memory error detector
==554== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==554== Using Valgrind-3.13.0 and LibVEX; rerun with -h for copyright info
==554== Command: wc index.html
==554== error calling PR_SET_PTRACER, vgdb might block
   183 30879 1131411 index.html
 =554==
 =554== HEAP SUMMARY:
          in use at exit: 0 bytes in 0 blocks
 =554==
         total heap usage: 233 allocs, 233 frees, 18,827 bytes allocated
 =554==
 =554==
=554== All heap blocks were freed -- no leaks are possible
 =554==
=554== For counts of detected and suppressed errors, rerun with: -v
=554== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
                                       $ ]
hugh@hugh-PC:
```

6)

Using cppcheck on program.cc, it seems that no matter what I tried cppcheck could't find any errors, but I received the error that cppcheck could not find the include files.

```
hugh@hugh-PC: $ cppcheck --enable=all program.cc
Checking program.cc ...
(information) Cppcheck cannot find all the include files (use --check-config for details)
```

Using valgrind on the program, there were no errors or memory leaks found.

```
$ valgrind ./count
nugh@hugh-PC:
=1484== Memcheck, a memory error detector
=1484== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
=1484== Using Valgrind-3.13.0 and LibVEX; rerun with -h for copyright info
=1484== Command: ./count
=1484== error calling PR_SET_PTRACER, vgdb might block
 Lines.
6 Characters.
=1484==
=1484== HEAP SUMMARY:
=1484==
           in use at exit: 0 bytes in 0 blocks
         total heap usage: 2 allocs, 2 frees, 73,216 bytes allocated
=1484==
==1484==
==1484== All heap blocks were freed -- no leaks are possible
==1484==
==1484== For counts of detected and suppressed errors, rerun with: -v
==1484== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
```

7 and 8)

Unfortunately I could not figure out what was wrong with my test file or include paths as I was getting the errors resulting below, I did not have enough time to figure them out, sorry.

```
hugh@hugh-PC:
g++ -Wall -c program.cc
g++ -Wall -I./lib -c -o test.o test.cc
In file included from test.cc:3:0:
program.cc: In function 'int main(int, char**)':
program.cc:38:5: error: redefinition of 'int main(int, char**)'
int main(int argc, char *argv[])

Annual
In file included from test.cc:2:0:
catch.hpp:17441:5: note: 'int main(int, char**)' previously defined here
int main (int argc, char * argv[]) {

Annual

Abull in annual in test.cc:2:0:
catch.hpp:17441:5: note: 'int main(int, char**)' previously defined here
int main (int argc, char * argv[]) {

Annual

Abull in annual in test.cc:2:0:
catch.hpp:17441:5: note: 'int main(int, char**)' previously defined here
int main (int argc, char * argv[]) {

Annual

Annu
```