

cameronosborn@ubuntu:~/Desktop/Link to Google Drive/EWU/Junior Year/Fall Quarter/CSCD  
340 - Operating Systems/Lab6\$ valgrind ./mssh

==24492== Memcheck, a memory error detector

==24492== Copyright (C) 2002-2015, and GNU GPL'd, by Julian Seward et al.

==24492== Using Valgrind-3.11.0 and LibVEX; rerun with -h for copyright info

==24492== Command: ./mssh

==24492==

command?: ls -al

total 0

```
drwxr-xr-x 1 cameronosborn cameronosborn 672 Oct 17 09:26 .
drwxr-xr-x 1 cameronosborn cameronosborn 512 Oct 13 22:35 ..
drwxr-xr-x 1 cameronosborn cameronosborn 160 Oct 16 14:34 alias
drwxr-xr-x 1 cameronosborn cameronosborn 224 Oct 12 09:13 cmake-build-debug
-rw-r--r-- 1 cameronosborn cameronosborn 666 Oct 12 09:13 CMakeLists.txt
-rw-r--r-- 1 cameronosborn cameronosborn 198616 Oct 9 09:31 cscd340_f17_lab6.pdf
-rw-r--r-- 1 cameronosborn cameronosborn 20421 Oct 17 09:18 cscd340Lab6.c
-rw-r--r-- 1 cameronosborn cameronosborn 8196 Oct 15 02:13 .DS_Store
drwxr-xr-x 1 cameronosborn cameronosborn 416 Oct 17 09:22 .git
drwxr-xr-x 1 cameronosborn cameronosborn 160 Oct 13 21:49 history
drwxr-xr-x 1 cameronosborn cameronosborn 224 Oct 17 09:24 .idea
drwx----- 1 cameronosborn cameronosborn 320 Oct 16 14:19 linkedlist
-rw-r--r-- 1 cameronosborn cameronosborn 2301 Oct 15 02:18 Makefile
-rwxrwxr-x 1 cameronosborn cameronosborn 37280 Oct 17 09:18 mssh
drwx----- 1 cameronosborn cameronosborn 192 Oct 17 02:09 pipes
drwx----- 1 cameronosborn cameronosborn 192 Oct 15 18:40 process
-rwxrwxr-x 1 cameronosborn cameronosborn 13744 Oct 16 12:38 shellTest
-rw-r--r-- 1 cameronosborn cameronosborn 5686 Oct 16 12:38 ShellTest.c
-rw-rw-r-- 1 cameronosborn cameronosborn 3252 Oct 17 09:21 test.txt
drwx----- 1 cameronosborn cameronosborn 192 Oct 16 09:02 tokenize
drwx----- 1 cameronosborn cameronosborn 256 Oct 17 02:09 utils
```

command?: ls -al | wc -w

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command?: alias test='ls -al'

command?: test

total 0

```
drwxr-xr-x 1 cameronosborn cameronosborn 672 Oct 17 09:26 .
drwxr-xr-x 1 cameronosborn cameronosborn 512 Oct 13 22:35 ..
drwxr-xr-x 1 cameronosborn cameronosborn 160 Oct 16 14:34 alias
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```
drwxr-xr-x 1 cameronosborn cameronosborn 160 Oct 13 21:49 history
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drwx----- 1 cameronosborn cameronosborn 256 Oct 17 02:09 utils
command?: exit
==24492==
==24492== HEAP SUMMARY:
==24492==    in use at exit: 0 bytes in 0 blocks
==24492== total heap usage: 65 allocs, 65 frees, 13,221 bytes allocated
==24492==
==24492== All heap blocks were freed -- no leaks are possible
==24492==
==24492== For counts of detected and suppressed errors, rerun with: -v
==24492== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
```