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hungaud@ubuntu:~/Documents/cscd340/Lab5$ valgrind ./lab5
==3414== Memcheck, a memory error detector
==3414== Copyright (C) 2002-2015, and GNU GPL'd, by Julian Seward et al.
==3414== Using Valgrind-3.11.0 and LibVEX; rerun with -h for copyright
info
==3414== Command: ./lab5
==3414==
command?: ls
There are 0 pipes
a.out          cscd340Lab5.c          Makefile  Untitled Document
cscd340_f17_lab5.pdf  cscd340Lab5systematic  pipes      utils
cscd340Lab5a.c      lab5                    process
cscd340Lab5a.o      lab5a                  tokenize
command?: ls -l
There are 0 pipes
total 256
-rwxrw-rw- 1 hungaud hungaud  8616 Oct  9 12:31 a.out
-rwxrw-rw- 1 hungaud hungaud 179659 Oct  9 12:31 cscd340_f17_lab5.pdf
-rwxrw-rw- 1 hungaud hungaud   521 Oct  9 12:31 cscd340Lab5a.c
-rwxrw-rw- 1 hungaud hungaud  1520 Oct  9 12:31 cscd340Lab5a.o
-rwxrw-rw- 1 hungaud hungaud   857 Oct  9 12:31 cscd340Lab5.c
-rwxrw-rw- 1 hungaud hungaud  2021 Oct  9 18:31 cscd340Lab5systematic
-rwxrwxr-x 1 hungaud hungaud 16648 Oct  9 18:23 lab5
-rwxrw-rw- 1 hungaud hungaud  8976 Oct  9 12:31 lab5a
-rwxrw-rw- 1 hungaud hungaud   641 Oct  9 12:31 Makefile
drwxrwxrwx 2 hungaud hungaud  4096 Oct  9 18:23 pipes
drwxrwxrwx 2 hungaud hungaud  4096 Oct  9 17:55 process
drwxrwxrwx 2 hungaud hungaud  4096 Oct  9 12:31 tokenize
-rw-rw-r-- 1 hungaud hungaud    0 Oct  9 18:32 Untitled Document
drwxrwxrwx 2 hungaud hungaud  4096 Oct  9 12:31 utils
command?: ls -l | wc -w
There is 1 pipe
pre pipe command: ls -l
post pipe command: wc -w
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command?: ls -l | pws
There is 1 pipe
pre pipe command: ls -l
post pipe command: pws
Command not found: pws
==3419==
==3419== HEAP SUMMARY:
==3419==    in use at exit: 50 bytes in 5 blocks
==3419==  total heap usage: 22 allocs, 17 frees, 2,259 bytes allocated
==3419==
==3419== LEAK SUMMARY:
==3419==    definitely lost: 0 bytes in 0 blocks
==3419==    indirectly lost: 0 bytes in 0 blocks
==3419==    possibly lost: 0 bytes in 0 blocks
==3419==    still reachable: 50 bytes in 5 blocks
==3419==    suppressed: 0 bytes in 0 blocks
==3419== Rerun with --leak-check=full to see details of leaked memory
==3419==
==3419== For counts of detected and suppressed errors, rerun with: -v

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==3419== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
command?: pws | wc -w
There is 1 pipe
pre pipe command: pws
post pipe command: wc -w
==3422==
==3422== HEAP SUMMARY:
==3422==     in use at exit: 50 bytes in 5 blocks
==3422==   total heap usage: 29 allocs, 24 frees, 2,333 bytes allocated
==3422==
==3422== LEAK SUMMARY:
==3422==     definitely lost: 0 bytes in 0 blocks
==3422==     indirectly lost: 0 bytes in 0 blocks
==3422==     possibly lost: 0 bytes in 0 blocks
==3422==     still reachable: 50 bytes in 5 blocks
==3422==     suppressed: 0 bytes in 0 blocks
==3422== Rerun with --leak-check=full to see details of leaked memory
==3422==
==3422== For counts of detected and suppressed errors, rerun with: -v
==3422== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
Command not found: pws
==3421==
==3421== HEAP SUMMARY:
==3421==     in use at exit: 50 bytes in 5 blocks
==3421==   total heap usage: 29 allocs, 24 frees, 2,333 bytes allocated
==3421==
==3421== LEAK SUMMARY:
==3421==     definitely lost: 0 bytes in 0 blocks
==3421==     indirectly lost: 0 bytes in 0 blocks
==3421==     possibly lost: 0 bytes in 0 blocks
==3421==     still reachable: 50 bytes in 5 blocks
==3421==     suppressed: 0 bytes in 0 blocks
==3421== Rerun with --leak-check=full to see details of leaked memory
==3421==
==3421== For counts of detected and suppressed errors, rerun with: -v
==3421== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
command?: exit
==3414==
==3414== HEAP SUMMARY:
==3414==     in use at exit: 0 bytes in 0 blocks
==3414==   total heap usage: 29 allocs, 29 frees, 2,333 bytes allocated
==3414==
==3414== All heap blocks were freed -- no leaks are possible
==3414==
==3414== For counts of detected and suppressed errors, rerun with: -v
==3414== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
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