

Exam1 Report

ECPE170

Name :Zhiyun Yan

a. wget <http://www1.pacific.edu/~jshafer3/ecpe170/exam1.tar.bz2>

b. mv exam1.tar.bz2 ~/bitbucket/2015_fall_ecpe170/exam1

c.

d. (1)make (2)./exam1

e. time ./exam1

real 0m0.009s

user 0m0.004s

sys 0m0.000s

real is the wall clock time

f.(1)valgrind --tool=memcheck --leak-check=yes --show-reachable=yes --num-callers=20 --log-file=memcheck.txt ./exam1

(2)gedit memcheck.txt &

==6187== Memcheck, a memory error detector

==6187== Copyright (C) 2002-2013, and GNU GPL'd, by Julian Seward et al.

==6187== Using Valgrind-3.10.0.SVN and LibVEX; rerun with -h for copyright info

==6187== Command: ./exam1

==6187== Parent PID: 4054

==6187==

==6187==

==6187== HEAP SUMMARY:

==6187== in use at exit: 7,632 bytes in 477 blocks

==6187== total heap usage: 1,611 allocs, 1,134 frees, 26,328 bytes allocated

==6187==

==6187== 704 bytes in 44 blocks are indirectly lost in loss record 1 of 2

==6187== at 0x4C2AB80: malloc (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)

==6187== by 0x4008DF: string_append (in

/home/zyyayzyb/bitbucket/2015_fall_ecpe170/exam1/exam1)

==6187== by 0x400828: main (in /home/zyyayzyb/bitbucket/2015_fall_ecpe170/exam1/exam1)

==6187==

==6187== 7,632 (6,928 direct, 704 indirect) bytes in 433 blocks are definitely lost in loss record 2 of 2

==6187== at 0x4C2AB80: malloc (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)

==6187== by 0x4008DF: string_append (in

/home/zyyayzyb/bitbucket/2015_fall_ecpe170/exam1/exam1)

==6187== by 0x400828: main (in /home/zyyayzyb/bitbucket/2015_fall_ecpe170/exam1/exam1)

==6187==

==6187== LEAK SUMMARY:

==6187== definitely lost: 6,928 bytes in 433 blocks

==6187== indirectly lost: 704 bytes in 44 blocks

==6187== possibly lost: 0 bytes in 0 blocks

==6187== still reachable: 0 bytes in 0 blocks

==6187== suppressed: 0 bytes in 0 blocks

==6187==

==6187== For counts of detected and suppressed errors, rerun with: -v
==6187== ERROR SUMMARY: 1 errors from 1 contexts (suppressed: 0 from 0)

g.

==6407== Memcheck, a memory error detector
==6407== Copyright (C) 2002-2013, and GNU GPL'd, by Julian Seward et al.
==6407== Using Valgrind-3.10.0.SVN and LibVEX; rerun with -h for copyright info
==6407== Command: ./exam1
==6407== Parent PID: 4054
==6407==
==6407==
==6407== HEAP SUMMARY:
==6407== in use at exit: 0 bytes in 0 blocks
==6407== total heap usage: 1,611 allocs, 1,611 frees, 26,328 bytes allocated
==6407==
==6407== All heap blocks were freed -- no leaks are possible
==6407==
==6407== For counts of detected and suppressed errors, rerun with: -v
==6407== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)