Name: Yu Qin

Results Screenshots

Q1: string

Test command:

```
1. yuq8@andromeda-30:~/253P/hw/hw2/1_str (ssh)
  1.log a.out* .DS_Store main.cpp Makefile string* string.dSYM/ strpbrk.cpp test_strtok.cpp
yuq8@andromeda-30 13:09:52 ~/253P/hw/hw2/1_str
$ make
-----compiling main.cpp to create executable program main-----
g++ -ggdb -std=c++11 main.cpp -o string
-----Congratulation to you! Successfully compile.
 -----/string to run
<u>vua8@andromeda-30_13·09:</u>55 ~/253P/hw/hw2/1_str
$ valgrind ./string
  <del>3585== Memcheck, a mem</del>ory error detector
 ==3585== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==3585== Using Valgrind-3.13.0 and LibVEX; rerun with -h for copyright info
 ==3585== Command: ./string
==3585==
This is
www.tutorialspoint.com
website
This
sample
string
Congratulation! All success!
==3585== HEAP SUMMARY:
          in use at exit: 72,704 bytes in 1 blocks
==3585==
 ==3585==
          total heap usage: 1 allocs, 0 frees, 72,704 bytes allocated
 ==3585==
==3585== LEAK SUMMARY:
 =3585== definitely lost: 0 bytes in 0 blocks
         indirectly lost: 0 bytes in 0 blocks
 =3585==
           possibly lost: 0 bytes in 0 blocks
==3585==
          still reachable: 72,704 bytes in 1 blocks
==3585==
               suppressed: 0 bytes in 0 blocks
==3585==
 ==3585== Rerun with --leak-check=full to see details of leaked memory
 ==3585==
==3585== For counts of detected and suppressed errors, rerun with: -v
==3585== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
```

Conclusion: right result, 0 error in memory leak.

Q2: parse

Test command:

```
1. yuq8@andromeda-30:~/253P/hw/hw2/2_parsec (ssh) — 125×40
yuq8@andromeda-30 14:08:08 ~/253P/hw/hw2/2_parsec
$ ls
1_musicLibrary.cpp 2my_musicLibrary.cpp
yuq8@andromeda-30 14:08:10 ~/253P/hw/hw2/2_parsec
  -----compiling main.cpp to create executable program main------
g++ -ggdb -std=c++11 main.cpp -o parseC
--------input (./parseC < 1_musicLibrary.cpp > tokens) to parse cpp, or all history command on screen.
-----input (diff 1_demo_output_musicLibrary.cpp tokens) to check the diff to screen, if no output, then right.
yua8@andromeda-30 14:08:12 ~/253P/hw/hw2/2_parsec
 $ valgrind ./parseC < 1_musicLibrary.cpp > tokens
==17058== Memcheck, a memory error detector

==17058== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.

==17058== Using Valgrind-3.13.0 and LibVEX; rerun with -h for copyright info

==17058== Command: ./parseC
  =17058==
 ==17058==
 ==17058== HEAP SUMMARY:
  =17058==
                    in use at exit: 72,704 bytes in 1 blocks
  =17058== total heap usage: 1 allocs, 0 frees, 72,704 bytes allocated
 ==17058==
  ==17058== LEAK SUMMARY:
==17058== LEAK SUMMARY:
==17058== definitely lost: 0 bytes in 0 blocks
==17058== indirectly lost: 0 bytes in 0 blocks
==17058== possibly lost: 0 bytes in 0 blocks
==17058== still reachable: 72,704 bytes in 1 blocks
==17058== suppressed: 0 bytes in 0 blocks
==17058== Rerun with --leak-check=full to see details of leaked memory
 ==17058==
 ==17058== For counts of detected and suppressed errors. rerun with
 ==17058== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
yuq8@andromeda-30 14:08:23 ~/253P/hw/hw2/2_parsec
$ diff 1_demo_output_musicLibrary.cpp tokens
yuq8@andromeda-30 14:08:29 ~/253P/hw/hw2/2_parsec
$ cat tokens
```

detail results:

```
1. yuq8@andromeda-30:~/253P/hw/hw2/2_parsec (ssh)
\times ..P_APPS/hw/hw2... • \$1 \times ..P_APPS/hw/hw2... • \$2 \times yuq8@andromeda-3... \$3
$ cat tokens
include
stdio
int
main
int
argc
char
argv
char
my_char
;
for
int
=
0
;
i
<
1024
```

```
int
main
int
argc
char
argv
char
my_char
'Α'
for
int
1024
printf
"\"Hello\" she said.\n"
yuq8@andromeda-30 14:08:32 ~/253P/hw/hw2/2_parsec
```

Conclusion: right result, 0 error in memory leak.