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```
mkharaev@andromeda-57 03:13:56 ~/hw/hw5
$ g++ -std=c++11 test_string.cpp -o test_string
mkharaev@andromeda-57 03:14:15 ~/hw/hw5
$ valgrind --tool=memcheck --leak-check=yes --show-reachable=yes --track-origins=yes test_string
==1996== Memcheck, a memory error detector
==1996== Copyright (C) 2002-2015, and GNU GPL'd, by Julian Seward et al.
==1996== Using Valgrind-3.11.0 and LibVEX; rerun with -h for copyright info
==1996== Command: test_string
==1996==
test1: This is the first string
test2: This is the second string
test3:
test1[5]: i
Error: String is empty
test3[1]: a
test2[500]: T
test1.size(): 24
test3.size(): 1
test1.indexOf('r'): 14
test3.indexOf('a'): 0
test1 == test2: 0
test3 == test3: 1
test2 < test2: 0
test3 < test1: 0
test1 + test2: This is the first stringThis is the second string
test1: This is the first string
test1 += test2: This is the first stringThis is the second string
test1: This is the first stringThis is the second string
test2.reverse(): gnirts dnoces eht si sihT
cin >> test1: hello
test1: hello
==1996==
==1996== HEAP SUMMARY:
==1996==     in use at exit: 72,704 bytes in 1 blocks
==1996==   total heap usage: 429 allocs, 428 frees, 79,552 bytes allocated
==1996==
==1996== 72,704 bytes in 1 blocks are still reachable in loss record 1 of 1
==1996==    at 0x4C28BE3: malloc (vg_replace_malloc.c:299)
==1996==    by 0x4EBD18F: pool (eh_alloc.cc:117)
==1996==    by 0x4EBD18F: __static_initialization_and_destruction_0 (eh_alloc.cc:244)
==1996==    by 0x4EBD18F: _GLOBAL__sub_I_eh_alloc.cc (eh_alloc.cc:307)
==1996==    by 0x400F552: _dl_init (in /usr/lib64/ld-2.17.so)
==1996==    by 0x40011A9: ??? (in /usr/lib64/ld-2.17.so)
==1996==
==1996== LEAK SUMMARY:
==1996==    definitely lost: 0 bytes in 0 blocks
==1996==    indirectly lost: 0 bytes in 0 blocks
==1996==      possibly lost: 0 bytes in 0 blocks
==1996==    still reachable: 72,704 bytes in 1 blocks
==1996==         suppressed: 0 bytes in 0 blocks
==1996==
==1996== For counts of detected and suppressed errors, rerun with: -v
==1996== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
```

```
mkharaev@andromeda-57 03:16:58 ~/hw/hw5
$ g++ -std=c++11 standard_main.cpp -o standard_main
mkharaev@andromeda-57 03:17:12 ~/hw/hw5
$ valgrind --tool=memcheck --leak-check=yes --show-reachable=yes --track-origins=yes standard_mai
n
==2060== Memcheck, a memory error detector
==2060== Copyright (C) 2002-2015, and GNU GPL'd, by Julian Seward et al.
==2060== Using Valgrind-3.11.0 and LibVEX; rerun with -h for copyright info
==2060== Command: standard_main
==2060==
+: FirstSecond
+=: FirstSecond
indexOf(char): 4
LT: 0
<<:
<<: Fourth
==: 0
[]: i
<<: First First
[]: i
[]: F
Enter a test string: hello
hello
0
0
==2060==
==2060== HEAP SUMMARY:
==2060==     in use at exit: 72,704 bytes in 1 blocks
==2060==   total heap usage: 103 allocs, 102 frees, 74,336 bytes allocated
==2060==
==2060== 72,704 bytes in 1 blocks are still reachable in loss record 1 of 1
==2060==    at 0x4C28BE3: malloc (vg_replace_malloc.c:299)
==2060==    by 0x4EBD18F: pool (eh_alloc.cc:117)
==2060==    by 0x4EBD18F: __static_initialization_and_destruction_0 (eh_alloc.cc:244)
==2060==    by 0x4EBD18F: _GLOBAL__sub_I_eh_alloc.cc (eh_alloc.cc:307)
==2060==    by 0x400F552: _dl_init (in /usr/lib64/ld-2.17.so)
==2060==    by 0x40011A9: ??? (in /usr/lib64/ld-2.17.so)
==2060==
==2060== LEAK SUMMARY:
==2060==    definitely lost: 0 bytes in 0 blocks
==2060==    indirectly lost: 0 bytes in 0 blocks
==2060==      possibly lost: 0 bytes in 0 blocks
==2060==    still reachable: 72,704 bytes in 1 blocks
==2060==         suppressed: 0 bytes in 0 blocks
==2060==
==2060== For counts of detected and suppressed errors, rerun with: -v
==2060== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
```