## Standard\_main

```
dereky1@katya-kazanova:~/45c/hw4
                                                                             ×
dereky1@katya-kazanova 00:14:24 ~/45c/hw4
$ g++ standard_main.cpp string.cpp -o standard_main
dereky1@katya-kazanova 00:14:28 ~/45c/hw4
$ standard main
+: FirstSecond
+=: FirstSecond
indexOf(String): 5
indexOf(char): 4
LT: 0
GT: 1
LE: 0
GE: 1
<<:
<<: Fourth
indexOf(String): 6
size(): 0
size(): 6
[]: i
reverse(): htruoF
<<: First First
[]: i
Error (class String): Index out of bounds
[]: F
!=: 0
Enter a test string: Submitter:dereky1(Yang, Derek)
Submitter:dereky1(Yang,Derek)
dereky1@katya-kazanova 00:14:43 ~/45c/hw4
```

## Valgrind:standard\_main

```
dereky1@katya-kazanova:~/45c/hw4
                                                                                      ×
=27446== HEAP SUMMARY:
==27446==
              in use at exit: 72,704 bytes in 1 blocks
==27446==
             total heap usage: 33 allocs, 32 frees, 73,177 bytes allocated
==27446==
==27446== 72,704 bytes in 1 blocks are still reachable in loss record 1 of 1
==27446==
            at 0x4A06A2E: malloc (vg replace malloc.c:270)
              by 0x4C99ACF: _GLOBAL__sub_I_eh_alloc.cc (eh_alloc.cc:117)
==27446==
              by 0x4D4BBC5: ??? (in /pkg/gcc/5.2.0/lib64/libstdc++.so.6.0.21)
==27446==
              by 0x4C94482: ??? (in /pkg/gcc/5.2.0/lib64/libstdc++.so.6.0.21)
==27446==
==27446==
==27446== LEAK SUMMARY:
==27446== definitely lost: 0 bytes in 0 blocks
             indirectly lost: 0 bytes in 0 blocks
  possibly lost: 0 bytes in 0 blocks
still reachable: 72,704 bytes in 1 blocks
  suppressed: 0 bytes in 0 blocks
=27446==
=27446==
==27446==
=27446==
```

## String\_test

```
dereky1@katya-kazanova:~/45c/hw4
                                                                      X
dereky1@katya-kazanova 00:14:43 ~/45c/hw4
$ g++ string_test.cpp string.cpp -o string_test
dereky1@katya-kazanova 00:15:34 ~/45c/hw4
$ string_test
        _____
COMMENCING THE TESTING PROCESS...
_____
TESTING CONSTRUCTOR AND PRINT()
hello is the string object
world is the next string object
together: helloworld
TESTING SIZE()
African is 7 characters long.
Savannah is 8 characters long.
TESTING ASSIGNMENT
e is now Empty
After assignment, e is now Full
After another assignment, e is now Half Full
TESTING INDEXING
The second letter of Iguanna is g
The last letter of Iguanna is a
TESTING REVERSE()
Reverse reversed is esreveR
esreveR reversed is Reverse
Boston reversed is notsoB
TESTING == and !=
a == b : 0 should be false
a == a : 1 should be true
a != b : 1 should be true
a != a : 0 should be false
```

Submitter: dereky1(Yang, Derek)

```
dereky1@katya-kazanova:~/45c/hw4
                                                                         П
                                                                             ×
TESTING +, +=
c=a+b: c=abcdefghijklm, should be abcdefghijklm
a+=b: a=abcdeghijklm, should be abcdefghijklm
d=a+a: d=abcdefabcdef, should be adcdefabcdef
d+=a: d=abcdefabcdeabcdeghijklm, should be abcdefabcdefabcdefghijklm
TESTING indexOf()
The index of a is 0, should be 0
The index of bcd is 1, should be 1
The index of e is 4, should be 4
TESTING read()
Type in a string you would like to store into This
Submitter:dereky1(Yang,Derek)
This is inside This: Submitter:dereky1(Yang,Derek)
TESTING MEMORY LEAKS
Allocations & deallocations match
_____
TESTING HAS FINISHED...
dereky1@katya-kazanova 00:15:53 ~/45c/hw4
```

## Valgrind test\_string

```
dereky1@katya-kazanova:~/45c/hw4
                                                                                X
==19522== HEAP SUMMARY:
==19522==
            in use at exit: 72,704 bytes in 1 blocks
            total heap usage: 88 allocs, 87 frees, 73,619 bytes allocated
==19522==
==19522==
==19522== 72,704 bytes in 1 blocks are still reachable in loss record 1 of 1
             at 0x4A06A2E: malloc (vg replace malloc.c:270)
             by 0x4C99ACF: _GLOBAL__sub_I_eh_alloc.cc (eh_alloc.cc:117) by 0x4D4BBC5: ??? (in /pkg/gcc/5.2.0/lib64/libstdc++.so.6.0.21)
==19522==
==19522==
             by 0x4C94482: ??? (in /pkg/gcc/5.2.0/lib64/libstdc++.so.6.0.21)
==19522==
==19522==
==19522== LEAK SUMMARY:
==19522== definitely lost: 0 bytes in 0 blocks
==19522==
            indirectly lost: 0 bytes in 0 blocks
==19522== possibly lost: 0 bytes in 0 blocks
==19522== still reachable: 72,704 bytes in 1 blocks
==19522==
                  suppressed: 0 bytes in 0 blocks
```