```
zhaohuaz@cheryl-tunt 10:42:09 ~
$ cd Homework/hw5
zhaohuaz@cheryl-tunt 10:42:21 ~/Homework/hw5
my_main.cpp String.cpp String.h test* test_main.cpp
zhaohuaz@cheryl-tunt 10:42:23 ~/Homework/hw5
$ q++ -std=c++0x String.cpp my main.cpp -o test
zhaohuaz@cheryl-tunt 10:42:38 ~/Homework/hw5
$ ./test
======testing constructor======
-----String(const char *s = "")-----
test 1:
Hello World
test 2: Hello from the other side
-----String(const String & s)-----
test 1:
Hello World
test 2:
Hello from the other side
======end of constructor test======
======testing test operator = (const String & s) =======
test 1:
String s1:
const String & cs1 = Hello World
s1 = cs1
s1: Hello World
test 2:
String s2: Life is so hard
const String & cs2: Hello from the other side
s2 = cs2
s2: Hello from the other side
======end of operator = test=======
=====testing index operator======
test 1:
s1: Hello World
s1[4]: o
when index bigger than len:
s1[20]:
test 2:
s2: Life is so hard
s2[3]: e
when index bigger than len:
 s2[17]:
======end of index test========
======testing length() ==========
test 1:
Hello World length: 11
test 2:
Hello from the other side length: 25
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======end of length test========
======testing indexOf ========
-----testing int indexOf(const char c)-----
test 1:
Hello World index of o: 4
test 2:
Life is hard index of i: 1
test 3:
Life is hard index of k: -1
=====end of indexOf test=======
======testing operator == =======
test 1:
Hello World == Hello World is 1
test 2:
Hello World == Life is hard is 0
test 3:
Hello World == Hello from the other side is 0
======end of == test=========
======testing operator < =======
test 1:
Hello World < Hello World is 0
test 2:
Hello World < Life is hard is 0
test 3:
Hello World < Hello from the other side is 0
test 4:
Hello from the other side < Hello World is 1
=====end of < test=========
======testing operator + ========
test 1:
Hello World
Hello World
Hello WorldHello World
s1 is Hello World
test 2:
Hello World
Life is hard
Hello WorldLife is hard
s1 is Hello World
test 3:
Hello World
Hello from the other side
is
Hello WorldHello from the other side
s1 is Hello World
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test 4:
Hello from the other side
Hello World
is
Hello from the other sideHello World
s3 is Hello from the other side
=====end of + test=========
======testing operator += ========
test 1:
Hello WorldHello World
Hello WorldHello World
Hello WorldHello World
s1 is Hello World
test 2:
Hello WorldHello WorldLife is hard
Life is hard
Hello WorldHello WorldLife is hard
s1 is Hello WorldHello World
test 3:
Hello WorldHello WorldLife is hardHello from the other side
Hello from the other side
İS
Hello WorldHello WorldLife is hardHello from the other side
s1 is Hello WorldHello WorldLife is hard
Hello from the other sideHello WorldHello WorldLife is hardHello from
the other side
Hello WorldHello WorldLife is hardHello from the other side
Hello from the other sideHello WorldHello WorldLife is hardHello from
the other side
s3 is Hello from the other side
======end of += test==========
======testing cin ==========
Test 1: Enter a test string: hello world
hello world
Test 2: Enter a test string: hello from the other side
hello from the other side
=====end of cin test=========
```