## Yang Tang. ID: 53979886 Homework 1

## Compilation:

```
yangt8@andromeda-3 01:24:46 ~/hw/hw1
[$ make
echo -----compiling MyString.ccp to create executable program main------
-----ggdb -std=c++11 MyString.cpp -o MyString
```

## Valgrind Memory Check:

```
yangt8@andromeda-3 01:24:55 ~/hw/hw1
[$ valgrind ./MyString
==21679== Memcheck, a memory error detector
==21679== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==21679== Using Valgrind-3.13.0 and LibVEX; rerun with -h for copyright info
==21679== Command: ./MyString
==21679==
test Copy
m: abc
m1: abc
m==m1 is true.
test Assign
m: abc
m1: abc
m==m1 is true.
test Index
m: abcdefg
            m[3]: d
test Length
            m.length(): 7
m: abcdefg
test IndexOfChar
m: abcdefg
           m.indexOf('b'):1 m.indexOf('e'):-1
test IndexOfStr
m: abcdefgh
            m.indexOf('def'):3  m.indexOf('ded'):-1
test EqualOperator
m1: abcd m2: abcd
                     m1==m2 is true.
test AddOperator
m3: abcdefgh m4: abcdefgh
                              m3==m4 is true.
test AddEqualOperator
m1: abcdefgh m3: abcdefgh
                              m1==m3 is true.
test Reverse2
m1.reverse(): dcba m2: dcba
                               m1.reverse()==m2 is true.
test Read
Please input a word:
abcd
```

```
test Read
Please input a word:
abcd
Your input is: abcd
Net memory allocated at program end: 0
(should be zero! positive = memory leak, negative = duplicate delete)
==21679==
==21679== HEAP SUMMARY:
==21679==
              in use at exit: 0 bytes in 0 blocks
==21679==
            total heap usage: 34 allocs, 34 frees, 780 bytes allocated
==21679==
==21679== All heap blocks were freed -- no leaks are possible
==21679==
==21679== For counts of detected and suppressed errors, rerun with: -v
==21679== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
yangt8@andromeda-3 01:27:51 ~/hw/hw1
```