First, the code is compiled successfully, and the result is not correct.

```
Enter the array size (>0) and the numbers to fill the array with: 5
3
1
4
2
6
=== Array before Sorting = 3, 1, 4, 2, 6
=== Array after Sorting = 32764, 32764, 32764, 32764
```

Then, log into gdb and set a break point. Run with the break point. It shows that every thing goes fine before sorting.

```
(gdb) file ArraySort
Reading symbols from /home1/ugrads/jmiao/CS2263 Summer2019 L2/ArraySort...(no de
bugging symbols found)...done.
(qdb) b swapAdjacent
Breakpoint 1 at 0x40068d
(gdb) r
Starting program: /homel/ugrads/jmiao/CS2263 Summer2019 L2/ArraySort
Enter the array size (>0) and the numbers to fill the array with: 5
1
4
2
=== Array before Sorting = 3, 1, 4, 2, 6
Breakpoint 1, 0x000000000040068d in swapAdjacent ()
Missing separate debuginfos, use: debuginfo-install glibc-2.17-222.el7.x86 64
Backtracing like this:
(gdb) bt
#0 0x000000000040068d in swapAdjacent ()
#1 0x00000000000400783 in inPlaceSort ()
     0x000000000004008ea in main ()
```

Then, correct the swapAdjacent and compare function.

```
Enter the array size (>0) and the numbers to fill the array with: 5

1

4

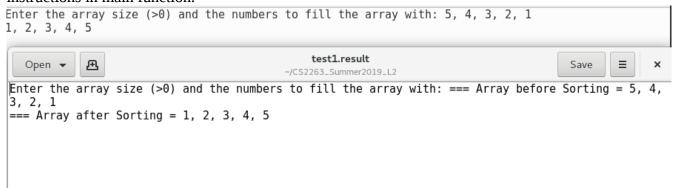
2

6

=== Array before Sorting = 3, 1, 4, 2, 6

=== Array after Sorting = 1, 2, 3, 4, 6
```

Then, I found the reason why I can't pass the test. It looks a little bit different. So I delete two printf instructions in main function.



## Finally, I passed the test!

```
(gdb) make test
gcc -Wall -Wextra -c ArraySort.c
gcc -Wall -Wextra -o ArraySort ArraySort.o
./ArraySort < Data/test1.input > test1.result
./TestPassed.sh test1.result Data/test1.expected
######
        Passed
                  ###### test1.result is equal to Data/test1.expected
./ArraySort < Data/test2.input > test2.result
./TestPassed.sh test2.result Data/test2.expected
######
        Passed
                  ###### test2.result is equal to Data/test2.expected
./ArraySort < Data/test3.input > test3.result
./TestPassed.sh test3.result Data/test3.expected
######
         Passed
                 ###### test3.result is equal to Data/test3.expected
```