## Algorithm Analysis Homework 6

## Due by 6/10(Fri.)

A[] array in counting sort algorithm in textbook/slide is indexed from 1 to n. Revise the algorithm so that A[] array is indexed from 0 to n-1.

## In main,

- generate *n* random number with certain seed number.
- resize range of random numbers from 0 to k.
- store them in array A[]
- and pass the array to function CountingSort(.....).

In function CountingSort(.....), just sort the array and display the result.

When your program is graded, grader will decide seed value, n, and k. Assume n and k value does not exceed 1,000.

You should use 'C/C++(extension is cpp)' language for homeworks as described in syllabus. You may use any feature in C++ including STL. (But, you probably do not need any fancy feature of C++.)

## Note

- 1) Try to make your output as neat as possible, so that other person can see what you have done clearly.
- 2) If the program does not compile, you will get no point. Make sure that your program runs in g++.
- 3) At header part of comment, list all the references you used when you do this homework.

For ex)

- (1) 강의 slide chapter 16.
- (2) Blog: \*\* URL here \*\*
- (3) book: "Algorithm analysis in C++" by Someone
- Please do not search the web. to do this homework. The program is rather easy and fun... Hopefully!