Deadline: See Catcourses

## **Quick-Sort**

**Description** In this lab assignment, your job is to implement the randomized version of Quicksort. That is, you must choose a random pivot from the elements in A[p...r] when partitioning the subarray. For more details, see page 191 of the textbook. The following webpage describes a simple way to obtain a random integer: http://www.cplusplus.com/reference/cstdlib/rand/

**Input structure** The input starts with an integer number which indicates the number of elements (integers) to be sorted, n. Then, the elements follow one per line.

**Output structure** Output the elements in non-decreasing order. Each element must be followed by ;.

## Examples of input and output:

Note that the output is only one line and has no white characters.

See the lab guidelines for submission/grading, etc., which can be found in Files/Labs.