



(/en/),  
v1.1.0

# CSD Testing System

(/en/)

## Counting sort

Cost: 5 | Solved: 82

**Memory limit:** 256 MBs

**Time limit:** 1 s

**Input:** input.txt

**Output:** output.txt

### Task:

You are given an array of  $n$  elements. Do the “Counting sort” in non-descending order and write a sorted array.

### Input:

The first line contains a natural  $n$  – the quantity of elements in an array  $n$  ( $1 \leq n \leq 10000000$ ), then  $n$  elements – non-negative numbers not greater than 100000.

### Output:

A sorted array.

### Example:

Input	Output
1 1	1
5 5 4 3 2 1	1 2 3 4 5