

Simple sort program

Description

Write a simple sort program to show the number array in descending order.

In each iteration, you may select the max number among the rest of the array and then use `swap()` to exchange the max number with the current position.

This is an example:

Given an array `5 10 3 1 2`

Iteration 1: The rest of the array is `5 10 3 1 2`, max number is `10` => exchange `10` with the first element `5` => `10 5 3 1 2`

Iteration 2: The rest of the array is `5 3 1 2` (`10` is sorted), the max number is `5` => exchange `5` with the first element `5` => `5 3 1 2`

Iteration 3: The rest of the array is `3 1 2` (`10 5` is sorted), the max number is `3` => exchange `3` with the first element `3` => `3 1 2`

Iteration 4: The rest of the array is `1 2` (`10 5 3` is sorted), the max number is `2` => exchange `2` with the first element `1` => `2 1`

After the iterations, you would get a sorted array in descending order `10 5 3 2 1`, just print the result.

Note: Please implement `swap()` with pointers

Input

Each case has a line, which contains `N` integers `a_i` and ends with `0`.

Constraints:

- `0 <= N <= 1000`
- `-2,147,483,648 <= a_i <= 2,147,483,647`
- `a_i != 0`

Output

Please output the sorted array in descending order, separating the array elements by spaces.

Note: there is no space after the last element.

Sample Input 1

2 15 -6 90 2 15 1000 0

Sample Output 1

1000 90 15 15 2 2 -6

Hint

You MUST include the function `swap(int* a, int* b)` in your code.

TAs will check whether you implement the function with pointers.

Problems

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Information

ID	mid_02
Time Limit	1000MS
Memory Limit	256MB
IO Mode	Standard IO
Created By	aster
Level	Low
Score	104
Tags	Show

Statistic

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