## Fear of Three for Ross 200 points

You know what? Ross had three marriages. All unsuccessful :D Because of this, he is angry with everyone. Whenever he gets a list of numbers during his research work, he wants to remove the maximum 3 numbers out of it to show his anger. He asked you to write a program for him, that takes a list of numbers and prints the 3 maximum numbers in it in non-increasing order.

## Input

First line will contain "N" the number of elements in the list. Next Line will contain "N" integers.

## Output

The only line of output should contain 3 integers, that are maximum in the list in non-increasing order.

## Constraints

$3<=N<=100$

Numbers in the list can be between 1 and 1000 inclusive.

## Example

Input:
8
73251867
Output:
877

