

Find minimum and maximum element in an array

Given an array of integers. Your task is to find the minimum and maximum element in array.

Input:

The first line of input contains an integer T denoting the number of test cases. Each test case contains an integer n denoting the size of the array. Then following line contains 'n' integers forming the array.

Output:

Print the minimum and maximum element of array.

Constraints:

$$1 \leq T \leq 100$$

$$1 \leq n \leq 1000$$

$$1 \leq a[i] \leq 10^{12}$$

Example:

Input:

2

6

3 2 1 56 10000 167

5

1 345 234 21 56789

Output:

1 100000

1 56789