

Find Min Max

Problem Code	hw00f_aminmax
Running Time Limit	1 sec
Memory Limit	16 mb

Objective

- Be able to read variable length input
- Be able to find extreme of data collection.

Introduction

This problem introduces variable-size input. The task is very easy to explain. Given an array of integers, find the minimum value and maximum value in the array. However, the array can be of any length. In this problem, you will need to read the length of the array first, and then read that specific number of integers afterward.

Task

Find minimum and maximum of given list of integers.

Input

The first line contain the number N ($1 \leq N \leq 10,000$), the size of the array. The following N lines describe the element in the array. The value in each line can be stored in an `int` variable

Output

The output must have two lines. The first line gives the minimum value in the array; the next line gives the maximum value.

Example

Ex1

Input	Output
5	0
2	6
4	
0	
6	
3	

Ex2

Input	Output
7	-7894
-6	9999
9999	
7	
0	
5	
-7894	
10	