Assignment #1: Introduction to Programming Assignment

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CSED331 (Hee-kap Ahn)

Jongmin Choi, Sunghwan Kim

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Problem 1. A+B

Problem Statement

Get two integers A and B from standard input and print an integer A + B.

Input Statement

First line contains T which is number of test cases. Each 2nd,..., t+1-th line contains a test case consisting of two integers A and B ($-2^{31} \le A, B < 2^{31}$).

Output Statement

The program should print A+B for each input. Each output should be separated by empty line.

Input Example

4

1 2

3 4

5 6

78

Output Example

3

7

11 15

Problem 2. Sort a list

Problem Statement

Write a program that sort a list in increasing order.

Input Statement

First line contains an integer t, which is the number of test cases. Each test case consists of two lines. The first line contains $N(\leq 1000)$, which is the length of the list. Second line contains N integers $L=v_1,v_2,...,v_N$. Each element is separated by a space. Each test case is separated by a line.

Output Statement

For each test case, output all elements of given input list in increasing order. Each element should be separated by a space.

Input Example

```
3
3 2 1
7
5 7 1 4 2 3 6
10
55 7 96 64 14 5 36 68 59 70
```

Output Example

```
1 2 3
1 2 3 4 5 6 7
5 7 14 36 55 59 64 68 70 96
```

Problem 3. Sort a large list

Problem Statement

Write a program that sort a list in increasing order.

Input Statement

First line contains an integer t, which is the number of test cases. Each test case consists of two lines. The first line contains $N(\leq 100000)$, which is the length of the list. Second line contains N integers $L=v_1,v_2,...,v_N$. Each element is separated by a space. Each test case is separated by a line.

Output Statement

For each test case, output all elements of given input list in increasing order. Each element should be separated by a space.

Input Example

```
3
3 2 1
7
5 7 1 4 2 3 6
10
55 7 96 64 14 5 36 68 59 70
```

Output Example

```
1 2 3
1 2 3 4 5 6 7
5 7 14 36 55 59 64 68 70 96
```