### Kick Start 2020 - Round A

# **Allocation**

#### **Problem**

There are  $\bf N$  houses for sale. The i-th house costs  $\bf A_i$  dollars to buy. You have a budget of  $\bf B$  dollars to spend.

What is the maximum number of houses you can buy?

## Input

The first line of the input gives the number of test cases, T. T test cases follow. Each test case begins with a single line containing the two integers N and N integers. The i-th integer is N, the cost of the i-th house.

## **Output**

For each test case, output one line containing Case #x: y, where x is the test case number (starting from 1) and y is the maximum number of houses you can buy.

## Limits

```
Time limit: 15 seconds.

Memory limit: 1 GB.

1 \le T \le 100.

1 \le B \le 10^5.

1 \le A_i \le 1000, for all i.
```

#### **Test Set 1**

 $1 \le N \le 100$ .

### **Test Set 2**

 $1 \le N \le 10^5$ .

## Sample

# Sample Input

```
3
4 100
20 90 40 90
4 50
30 30 10 10
3 300
999 999 999
```

# Sample Output

```
Case #1: 2
Case #2: 3
Case #3: 0
```

In Sample Case #1, you have a budget of 100 dollars. You can buy the 1st and 3rd houses for 20 + 40 = 60 dollars.

In Sample Case #2, you have a budget of 50 dollars. You can buy the 1st, 3rd and 4th houses for 30 + 10 + 10 = 50 dollars.

In Sample Case #3, you have a budget of 300 dollars. You cannot buy any houses (so the answer is 0).

**Note:** Unlike previous editions, in Kick Start 2020, all test sets are visible verdict test sets, meaning you receive instant feedback upon submission.