

Mark and Toys ☆

Problem

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Discussions

Editorial

Topics

Mark and Jane are very happy after having their first child. Their son loves toys, so Mark wants to buy some. There are a number of different toys lying in front of him, tagged with their prices. Mark has only a certain amount to spend, and he wants to maximize the number of toys he buys with this money.

Given a list of prices and an amount to spend, what is the maximum number of toys Mark can buy? For example, if *prices* = [1, 2, 3, 4] and Mark has *k* = 7 to spend, he can buy items [1, 2, 3] for 6, or [3, 4] for 7 units of currency. He would choose the first group of 3 items.

Function Description

Complete the function maximumToys in the editor below. It should return an integer representing the maximum number of toys Mark can purchase.

maximumToys has the following parameter(s):

- prices: an array of integers representing toy prices
- k: an integer, Mark's budget

Input Format

The first line contains two integers, *n* and *k*, the number of priced toys and the amount Mark has to spend.

The next line contains *n* space-separated integers *prices*[*i*]

Constraints

$1 \leq n \leq 10^5$
 $1 \leq k \leq 10^9$
 $1 \leq prices[i] \leq 10^9$

A toy can't be bought multiple times.

Output Format

An integer that denotes the maximum number of toys Mark can buy for his son.

Sample Input

```
7 50
1 12 5 111 200 1000 10
```

Sample Output

```
4
```

Explanation

He can buy only 4 toys at most. These toys have the following prices: 1, 12, 5, 10.

Author

HackerRank

Difficulty

Easy

Max Score

35

Submitted By

67904

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JavaScript (Node.js)

```
1 'use strict';
2
3 const fs = require('fs');
4
5 process.stdin.resume();
6 process.stdin.setEncoding('utf-8');
7
8 let inputString = '';
9 let currentLine = 0;
10
11 process.stdin.on('data', inputStdin => {
12     inputString += inputStdin;
13 });
14
15 process.stdin.on('end', _ => {
16     inputString = inputString.replace(/\s*$/, '')
17     .split('\n')
18     .map(str => str.replace(/\s*$/, ''));
19
20     main();
21 });
22
23 function readLine() {
24     return inputString[currentLine++];
25 }
26
27 // Complete the maximumToys function below.
```

29 function maximumToys(prices, k) {
30
31 }
32

Line: 1 Col: 1

 Upload Code as File

☐ Test against custom input

Run Code

Submit Code