



Mark and Toys ★

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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 toy prices and an amount to spend, determine the maximum number of gifts he can buy.

Note Each toy can be purchased only once.

Example

prices = [1, 2, 3, 4]

k = 7

The budget is 7 units of currency. He can buy items that cost [1, 2, 3] for 6, or [3, 4] for 7 units. The maximum is 3 items.

Function Description

Complete the function maximumToys in the editor below.

maximumToys has the following parameter(s):

- int prices[n]: the toy prices
- int k: Mark's budget

Returns

- int: the maximum number of toys

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

$$1 \leq n \leq 10^5$$

$$1 \leq k \leq 10^9$$

$$1 \leq \textit{prices}[i] \leq 10^9$$

A toy can't be bought multiple times.

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.

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JavaScript (Node.js)



```
23 function readLine() {
24     return inputString[currentLine++];
25 }
26
27 // Complete the maximumToys function below.
28 function maximumToys(prices, k) {
29     let counter = 0
30     let sorted = [...prices].sort((a, b) => {
31         return a - b
32     })
33     sorted.forEach(price => {
34         if (price <= k) {
35             k -= price
36             counter++
37         }
38     })
39     return counter
40 }
41
42 function main() {
43     const ws = fs.createWriteStream(process.env.OUTPUT_PATH);
44
45     const nk = readLine().split(' ');
```

Line: 39 Col: 17

[Upload Code as File](#) ☐ [Test against custom input](#)[Run Code](#)[Submit Code](#)

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

✓ Sample Test case 0

✓ Sample Test case 1

✓ Sample Test case 2

Input (stdin)

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1	7 50
2	1 12 5 111 200 1000 10

Your Output (stdout)

1	4
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Expected Output

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1	4
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