Mark and Toys

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 $\boldsymbol{prices} = [1, 2, 3, 4]$ and Mark has $\boldsymbol{k} = 7$ 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, $\boldsymbol{n}$ and $\boldsymbol{k}$, the number of priced toys and the amount Mark has to spend.
The next line contains $\boldsymbol{n}$ space-separated integers $\boldsymbol{prices[i]}$

Constraints

$1 \leq \boldsymbol{n} \leq 10^5$
$1 \leq \boldsymbol{k} \leq 10^9$
$1 \leq \boldsymbol{prices[i]} \leq 10^9$
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: $1, 12, 5, 10$.

Submissions: 326
Max Score: 20
Difficulty: Easy

Rate This Challenge:

More

Current Buffer (saved locally, editable) C++14

```
#include <bits/stdc++.h>

using namespace std;

vector<string> split_string(string);

// Complete the maximumToys function below.
int maximumToys(vector<int> prices, int k) {


}

int main()
{}

vector<string> split_string(string input_string) {}
```

Line: 1 Col: 1

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