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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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Language

C#



```
1 using System.CodeDom.Compiler;
2 using System.Collections.Generic;
3 using System.Collections;
4 using System.ComponentModel;
5 using System.Diagnostics.CodeAnalysis;
6 using System.Globalization;
7 using System.IO;
8 using System.Linq;
9 using System.Reflection;
10 using System.Runtime.Serialization;
11 using System.Text.RegularExpressions;
12 using System.Text;
13 using System;
14
15 class Result
16 {
17
18     /*
19      * Complete the 'maximumToys' function below.
20      *
21      * The function is expected to return an INTEGER.
22      * The function accepts following parameters:
23      * 1. INTEGER_ARRAY prices
24      * 2. INTEGER k
25      */
26
27     public static int maximumToys(List<int> prices, int k)
```

Line: 67 Col: 1

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