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# Mark and Toys

by HackerRank

Problem

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Mark and Jane are very happy after having their first kid. Their son is very fond of toys, so Mark wants to buy some. There are  $N$  different toys lying in front of him, tagged with their prices, but he has only  $\$K$ . He wants to maximize the number of toys he buys with this money.

Now, you are Mark's best friend and have to help him buy as many toys as possible.

## Input Format

The first line contains two integers,  $N$  and  $K$ , followed by a line containing  $N$  space separated integers indicating the products' prices.

## Constraints

$$1 \leq N \leq 10^5$$

$$1 \leq K \leq 10^9$$

$$1 \leq \text{price of any toy} \leq 10^9$$

A toy can't be bought multiple times.



## Output Format

An integer that denotes 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.

[f](#) [t](#) [in](#)

Submissions: 21279

Max Score: 35

Difficulty: Easy

Rate This Challenge:

★★★★★ Thanks!

Need Help?

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Current Buffer (saved locally, editable)

C#



```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 class Solution {
```

```
5 static void Main(String[] args) {
6     /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be
   named Solution */
7
8     string[] input = Console.ReadLine().Split(' ');
9     int n = int.Parse(input[0]);
10    int k = int.Parse(input[1]);
11
12    int[] a = Array.ConvertAll(Console.ReadLine().Split(' '), e => int.Parse(e));
13
14    Array.Sort(a);
15
16    int ans = 0;
17    int sum = 0;
18    for (int i = 0; i < a.Length; i++)
19    {
20        if (sum + a[i] <= k)
21        {
22            sum += a[i];
23            ans++;
24        }
25        else
26        {
27            break;
28        }
29    }
30    //Console.WriteLine(sum);
31    Console.WriteLine(ans);
32
33
34 }
35 }
```

Line: 8 Col: 9

 Upload Code as File☐ Test against custom input

Run Code

Submit Code

### Congrats, you solved this challenge!

✓ Test Case #0  
✓ Test Case #3  
✓ Test Case #6  
✓ Test Case #9  
✓ Test Case #12  
✓ Test Case #15

✓ Test Case #1  
✓ Test Case #4  
✓ Test Case #7  
✓ Test Case #10  
✓ Test Case #13

✓ Test Case #2  
✓ Test Case #5  
✓ Test Case #8  
✓ Test Case #11  
✓ Test Case #14

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