Mark and Toys

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.

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

Constraints
$1 <= N <= 10^5$
$1 <= K <= 10^9$
$1 <= price\ of\ any\ toy <= 10^9$
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.

Related Topics
Greedy Technique
Sorting

Submissions: 13380
Max Score: 35
Difficulty: Easy

More

Current Buffer (saved locally, editable)

Java 7

```
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;

public class Solution {
    public static void main(String[] args) {
        Scanner stdin=new Scanner(System.in);
        int n=stdin.nextInt(),k=stdin.nextInt();
        int prices[]=new int[n];
        for(int i=0;i<n;i++) prices[i]=stdin.nextInt();

        int answer = 0;
        // Compute the final answer from n,k,prices
        System.out.println(answer);
    }
}

```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code