





Problem Submissions Leaderboard Editorial △ Topics

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 prices = [1, 2, 3, 4] and Mark has k = 7 to spend, he can buy items [1, 2, 3] for [3, 4] for

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, $m{n}$ and $m{k}$, the number of priced toys and the amount Mark has to spend.

The next line contains n space-separated integers prices[i]

Constraints

 $1 \le n \le 10^5$

 $1 \le k \le 10^9$

 $1 \le prices[i] \le 10^9$

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 ${\bf 4}$ toys at most. These toys have the following prices: ${\bf 1,12,5,10}$.



```
C#
       using System.Text;
 12
 13
       using System;
 14
 15
       class Solution {
 16
 17
           // Complete the maximumToys function below.
 18
           static int maximumToys(int[] prices, int k) {
 19
               var sum = 0;
               var count = 0;
 20
               var temp = prices.OrderBy(a => a);
 21
               foreach(var item in temp)
 22
 23
 24
                    sum +=item;
 25
                    if(sum > k)
 26
                        return count;
 27
                    count++;
 28
               }
 29
               return count;
           }
 30
 31
 32
           static void Main(string[] args) {
 33
               TextWriter textWriter = new StreamWriter(@System.Environment.GetEnvironmentVariable
       ("OUTPUT_PATH"), true);
 34
               string[] nk = Console.ReadLine().Split(' ');
 35
 36
               int n = Convert.ToInt32(nk[0]);
 37
 38
 39
               int k = Convert.ToInt32(nk[1]);
 10
                                                                                                             Line: 29 Col: 22
                                                                                              Run Code
                                                                                                              Submit Code
                         Test against custom input
↑ <u>Upload Code as File</u>
```

Facing any Issues? Let us know!

You have earned 35.00 points!

These points will also count towards your progress in the Problem Solving Badge.

99%

844.41/850



You solved this challenge. Would you like to challenge your friends?







Next Challenge

 \otimes Testcase Testcase

Testcase

(%) Testcase

 \otimes Testcase

Expected Output

Testcase

 \otimes Testcase (%) **Testcase**

Download

Input (stdin)

7 50

Download

4

1 12 5 111 200 1000 10