Mark and Toys ★

Problem Submissions Leaderboard Editorial A 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 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, $m{n}$ and $m{k}$, the number of priced toys and the amount Mark has to spend.

The next line contains $m{n}$ space-separated integers $m{prices[i]}$

Constraints

 $1 \le n \le 10^5$

 $1 \le k \le 10^9$

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

A toy can't be bought multiple times.

Sample Input

7 50

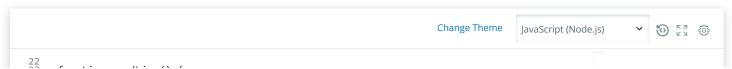
1 12 5 111 200 1000 10

Sample Output

4

Explanation

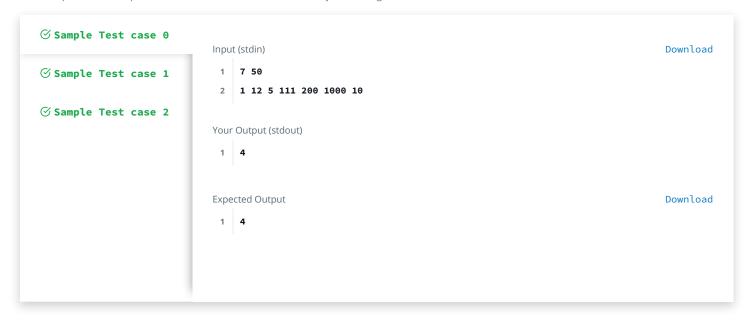
He can buy only ${f 4}$ toys at most. These toys have the following prices: ${f 1,12,5,10}$.



```
23
      tunction readLine() {
 24
          return inputString[currentLine++];
 25
 26
 27
      // Complete the maximumToys function below.
      function maximumToys(prices, k) {
 28
 29
      let counter = 0
 30
        let sorted = [...prices].sort((a, b) => {
 31
          return a - b
 32
 33
        sorted.forEach(price => {
 34
          if (price <= k) {
 35
            k -= price
 36
            counter++
          }
 37
 38
        })
 39
        return counter
 40
 41
      function main() {
 42
 43
           const ws = fs.createWriteStream(process.env.OUTPUT_PATH);
 44
           const nk = readLine().split(' ');
 45
                                                                                                               Line: 39 Col: 17
oldsymbol{1} Upload Code as File oxedsymbol{\square} Test against custom input
                                                                                                 Run Code
                                                                                                                Submit Code
```

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.



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