# Mark and Toys ☆

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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 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 $6$, or $[3, 4]$ for $7$ units of currency. He would choose the first group of $3$ items.

**Function Description**

Complete the function maximumToys in the editor below. It should return an integer representing the maximum number of toys Mark can purchase.

| | |
|---|---|
| Author | HackerRank |
| Difficulty | Easy |
| Max Score | 35 |
| Submitted By | 114892 |

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RESOURCES

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, $n$ 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**

$1 \leq n \leq 10^5$

$1 \leq k \leq 10^9$

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

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
```

Greedy Technique

Sorting

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**Explanation**

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

Change Theme Python 3

```
#!/bin/python3

import math
import os
import random
import re
import sys

# Complete the maximumToys function below.
def maximumToys(prices, k):
    c=0
    prices.sort()
    for i in range(n-1):
        if (k>0 and k-prices[i]>0):
            k-=prices[i]
            c+=1
    return c




if __name__ == '__main__':
```

Line: 37 Col: 17

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


You have earned 35.00 points!

These points will also count towards your progress in the Problem Solving Badge. **48%** 331/475

## Congratulations

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

Next Challenge

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

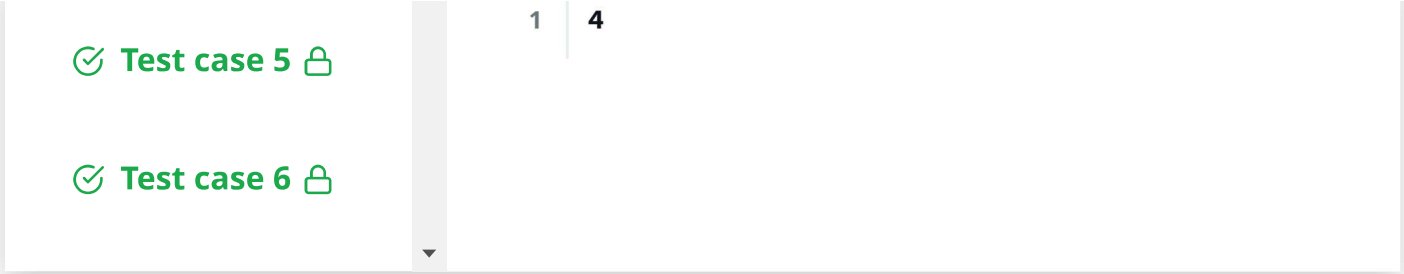
Compiler Message

Success

Input (stdin) Download

```
1  7 50
2  1 12 5 111 200 1000 10
```

Expected Output Download


Test case 5
Test case 6
1
4