

Mark and Toys

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, *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.

Sample Input

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

Sample Output

Explanation

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