

Tobby and Tanks II

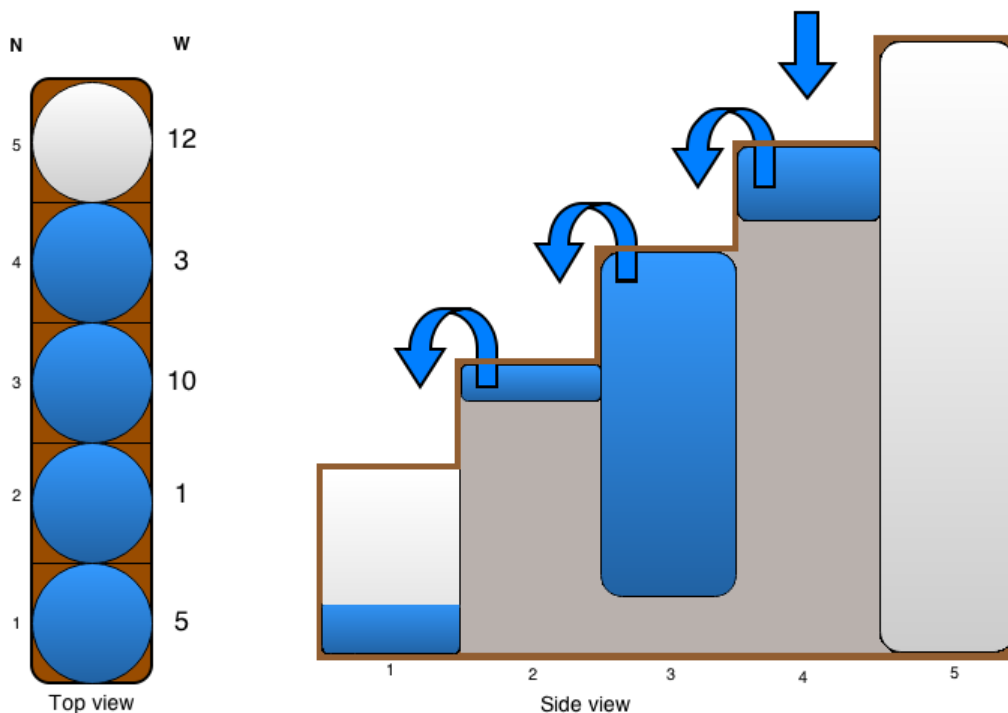
Problem

Submissions

LeaderRank

Discussions

Tobby is a curious dog and he is always thinking about new and revolutionary ideas. Now he imagined N tanks placed in a row (staggered - See the figure). Every tank has a capacity of W liters of water. The cute and curious dog is asked himself, if you have K liters of water, which is the i -th tank (where i is the maximum possible), such that if we drop the water there, the water will reach the first tank. As you know Tobby is not a complicated dog, so he does not want completely fill the first tank, he will be happy if the first tank have at least 1 liter of water.



You are given n tanks with capacity w_i , and q queries, each query contains one integer k , the amount of water.

Input Format

For every test case, the first line contains two integers n ($1 \leq n \leq 10^5$) and q ($1 \leq q \leq 10^4$), the number of tanks and the number of queries respectively, the next line contains n integers w_i ($1 \leq w_i \leq 10^4$). The next q lines contains a single integer k ($1 \leq k \leq 10^9$), the amount of water. (Read until EOF).

Constraints

- $(1 \leq q \leq 10^4)$
- $(1 \leq w_i \leq 10^4)$
- $(1 \leq k \leq 10^9)$

Output Format

For every query you must print a single integer, the maximum i ($1 \leq i \leq n$)

Sample Input 0

```
5 2
5 1 10 3 12
16 1
```

Sample Output 0

```
4 1
```

[f](#) [t](#) [in](#)

Submissions: 83

Max Score: 100

Difficulty: Medium

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C

```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int main() {
7
8     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9     return 0;
10 }
11
```

Line: 1 Col: 1

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