Problem F: Weight Limits

After trying a few of the possible pins, CORA hits on the right one and the elevator doors slide open. She steps into the elevator but finds that it has already got a number of boxes loaded in it. The elevator has a strict weight limit and CORA will likely need to move some of these boxes out before it can take her up.

CORA takes the same amount of time to move a box out of the elevator regardless of how much the box weighs. She also wants to move as few boxes out as possible, as time is of the essence. You need to write a program to determine the minimum number of boxes that need to be moved out so the elevator will be at or under the weight limit when she gets on. CORA herself weighs 200 pounds, and her weight needs to be taken into account of the limit.

Input

The first line of input contains the weight limit for the elevator, in pounds. The second line of input contains an integer, N, giving the number of boxes in the elevator. Following that are N lines, each giving the weight of a box that's in the elevator, in pounds.

Output

Output should consist of a single integer, giving the minimum number of boxes that CORA needs to move out of the elevator to be under the weight limit when she gets on.

Sample Input

```
1200
7
210
450
170
330
85
280
325
```

Sample Output

```
3
```