

Qadian Marathon

You are given the list of prizes and initial money. You have an initial score of 0. There are 2 actions that you could perform.

1. Boost up : you can boost up if your money \geq prize. If you boost up, you gain 1 score but you lose money by prize value.
2. Boost down : you can boost down if your score > 0 . If you boost down, you lose score by 1 but you gain money by prize value.

Your goal is to find the maximum score you could achieve by running through all the prizes. You can pick prizes in any order. Each prize can be picked only once.

The first line contains 2 integers separated by space . First Integer is N which is the total number of prizes. Second integer is the initial money. Second line, list of prizes with space-separated.

Initial money > 0

Prizes values > 0

Output: Maximum score

No	Sample Input	Sample Output	Explanation
1	1 50 [100]	0	You cannot boost up or boost down.
2	4 200 [100,200,300,400]	2	Play the prizes in this order to get a score of 2: 1. Play the 0th prize (100) boost up, your money becomes 100 and score becomes 1. 2. Play the 3rd prize (400) boost down, your money becomes 500 and score becomes 0. 3. Play the 1st prize (200) face up, your money becomes 300 and score becomes 1. 4. Play the 2nd prize(300) boost up, your money becomes 0 and score becomes 2.