Sticks

Given an array of N sticks of certain lengths, and a target length K. You have to pick the minimum number of sticks from the given array to form K. In other words, you have to use the fewest amount of sticks possible. You are able to use each stick several times.

Constraints

- $1 \leq N \leq 100$
- $1 \leq K \leq 10000$
- The lengths of the stick are natural numbers and are smaller than or equal to 100,000.
- The same length of the sticks may be given several times.

Output

- If there is a solution, output the minimum number of sticks used.
- If impossible, output -1.

Additional Information

- Please make the time complexity of this code be less than or equal to O (N*K).

Case 1	***Case 2***	***Case 3***
Input N = 3 K = 13 Sticks = [1, 5, 12]	**Input** N = 4 K = 68 Sticks = [1,14,30,17]	**Input** N = 6 K = 109 Sticks = [13,17,43,100,110,120]
Output 2	**Output** 4	**Output** -1
Explanation: You can choose (1,12) to make 13	Explanation: You can choose (17,17,17,17) to make 68	Explanation: You can not make 109 with the given sticks