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## I. Segment with the Required Subset

time limit per test: 1 second 
memory limit per test: 1024 megabytes

Given an array of n integers  $a_i$ . Let's say that a segment of this array a[l..r] is good if on this segment it is possible to choose a certain set of numbers whose sum is equal to s. Your task is to find the shortest good segment.

## Input

The first line contains integers n and s ( $1 \le n \le 10^5$ ,  $1 \le s \le 1000$ ). The second line contains numbers  $a_i$  ( $1 \le a_i \le s$ ).

## Output

Print one number, the minimum length of a good segment. If there is no good segment, print -1.

## Example

input		Сору
10 100 14 33 22 21 11 5 13 28	1 2	
output		Сору
5		

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