

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 ($1 \leq n \leq 10^5, 1 \leq s \leq 1000$). The second line contains numbers a_i ($1 \leq a_i \leq s$).

Output

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

Example

| | |
|---------------------------------------|------|
| input | Copy |
| 10 100 14 33 22 21 11 5 13 28 61 2 | |
| output | Copy |
| 5 | |

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

Submit

