

A. Looped Playlist

time limit per test: 1 second

memory limit per test: 256 megabytes

Misha listens to music on his player, his playlist consists of n songs that are played in a specific order. After the last song ends, the first one starts playing. Each song has its own characteristic, *positivity* a_i , given by an integer. After listening to the i -h song, Misha's mood increases by a_i .

Misha can start listening to any of the songs and listen to any number of songs in a row, while he may listen to some songs more than once.

Misha feels happy if his mood after listening to the songs has increased by at least p . He wants to feel happy listening to as few songs as possible. Help him choose the song to start listening to and the number of songs to listen to to be happy.

Input

The first line contains two integers n and p ($1 \leq n \leq 1000$, $1 \leq p \leq 10^{18}$), the number of songs in the playlist and the amount that Misha wants increase his mood.

The second line contains n integers a_i ($1 \leq a_i \leq 10^9$), positivity of the songs.

Output

Print two numbers, the index of the song k , with which you should start listening, and the number of songs c , which you should listen to. If there are several possible answers, print any.

Examples

input	Copy
9 10 1 2 3 4 5 4 3 2 1	
output	Copy
3 3	
input	Copy
5 6 3 1 1 1 4	
output	Copy
5 2	
input	Copy
3 100 10 10 10	
output	Copy
1 10	

→ Submit?

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

Choose file: Choose File No file chosen

Submit

