

## Problem K. Potato Shuffle

Input file: *standard input*  
Output file: *standard output*  
Time limit: 1 second  
Memory limit: 256 mebibytes

Marichka has a lot of potato in her basement. There are  $n$  bags with potato in a line. The  $i$ -th of them contains  $a_i$  potatoes.

Zenyk loves to shuffle those bags. During one shuffle operation he can grab two adjacent bags and swap their positions if the total number of potatoes in this two bags does not exceed number  $k$ . Zenyk can perform as many shuffle operations as he wishes.

Once Zenyk and Marichka wondered, what is the total number of bag permutations Zenyk can achieve. Two bag permutations are considered different if there is a position where two bags have different number of potatoes.

### Input

The first line contains two integers  $n$  ( $1 \leq n \leq 10^5$ ) and  $k$  ( $0 \leq k \leq 2 \cdot 10^9$ ). The second line contains  $n$  integers  $a_i$  ( $1 \leq a_i \leq 10^9$ ).

### Output

Single integer — the number of different permutations modulo  $10^9 + 7$ .

### Examples

standard input	standard output
3 7 5 2 4	3
5 4 1 2 3 2 1	10