

Array left rotation

Your task is to write a program that, given an array of N elements, print the elements of an array after left rotating array elements by D positions.

Input

The first line of input contains elements number (N) and position's number for rotating array (D).
The second line of input contains elements of array.

Output

Array elements after D rotation.

Sample input

Sample output

5 2 2 3 2 1 7	2 1 7 2 3
7 2 1 2 3 4 5 6 7	3 4 5 6 7 1 2