Week 5

Problem 2

Problem Statement:

Given an array of *n* elements, and an integer *k,* find the maximum of every *k*-sized subarray.

Input:

The first line contains two integers *n, k* denoting the length of the array and the subarray size respectively.

The second line contains *n* space separated integers denoting the array.

Output:

Print *n-k+1* integers in a single line separated by a space, where each integer denotes the maximum of its corresponding *k*-sized subarray.

Constraints:

1 <= n <= 10^6

1 <= A[i] <= 10^9

Sample Testcases:

Input	Output
5 3 1 2 3 4 5	3 4 5

Input	Output
7 3 2 5 1 4 3 7 6	5 5 4 7 7