Assignment Case	
DS using CH1	
Periode Berlaku Semester Ganjil 2024/2025 ***Valid on*** *Odd Year 2024/2025*	**Software Laboratory Center** **Assistant Recruitment 25-1**

Soal

Case

Window of Opportusnity

In a carnival shooting game, there are **N** boards, each with a certain number of points, denoted as $\mathbf{P_1, P_2, ..., P_N}$. A window of size **K** is used to display exactly **K** consecutive boards at a time. The game begins by showing the leftmost **K** boards (from $\mathbf{P_1}$ to $\mathbf{P_K}$) in the window. Afterward, the window slides one board to the right, removing the leftmost board and adding the next board from the sequence, until the window reaches the rightmost board. Your task is to determine the maximum number of points that can be acquired in each window position as it moves from left to right across the sequence of boards. Can you calculate the maximum possible points for each window of opportunity?

Input

- The first line consists of **N, K** which represents the number of boards and the size of the window
- The second line consists of $\mathbf{P_1, P_2, ..., P_N}$ which represents the points that can be acquired from each board.

Constraint

$1 \leq N \leq 100000$

$1 \leq K \leq N$

$-10000 \leq P_1, P_2, ..., P_N \leq 10000$

Output

Output the sequence of integers representing the maximum point that can be acquired in each window of opportunity.

Example

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

Explanation

In the first test case, we need to put a window with size 3 to section each iteration which will result in the output.

					MAX
[3	2	1]	4	5	3
3	[2	1	4]	5	4
3	2	[1	4	5]	5

Note 1: Use scanf**(“%d”, &A)** to do the input, and use **printf(“%d\n”, ……)** to output the answer. Pay attention to the extra newline character at the end (See Note 2)!

Note 2: Always print a newline **(\n)** at the end of the answer