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Ask Doubt

Time-Limit: 1 sec

Score: 100.00/100

Difficulty :

Memory: 256 MB

Accepted Submissions: 100

Relevant For:

AZ-201

AZ-202

Description

You have given an array A of size N and a positive integer $K (\leq N)$. $A_1, A_2, ..., A_N$ are the elements of the array. Let $B_i = \max (A_i, A_{i+1}, ..., A_{i+K-1})$, for $1 \leq i \leq N - K + 1$. Find B_i values for all i such that $1 \leq i \leq N - K + 1$.

Input Format

The first line contains T , the number of test cases.
The first line of each test case contains N , the number of integers in an array A and K .
The second line of each test case contains N space-separated integers $A_1, A_2, ..., A_N$.

Output Format

For each test case, print array B as $B_1 B_2 ... B_{N-K+1}$ in a new line.

Constraints

$1 \leq T \leq 100000$
 $1 \leq K \leq N \leq 100000$
 $-10^9 \leq A_i \leq 10^9$
Sum of N over all test cases $\leq 5 * 10^5$.

Sample Input 1

Copy

```
4
9 3
1 2 3 1 4 5 2 3 6
5 5
1 -4 3 -3 -9
4 1
-3 1 -8 3
5 2
-1 -1 -1 -1 -1
```

Sample Output 1

Copy

```
3 3 4 5 5 6
3
-3 1 -8 3
1 1 1 1
```

C++14[GCC] ▾

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