Maximum Threshold

Given an array A of N numbers. Threshold of subarray is defined as the value of minimum element in the subarray. Find maximum threshold among all contiguous subarrays of size y ,
where 1 <= y <=N

Input :
First line contains number of test cases T.
For each test-case:
First line contains number N
Next line contains N values denoting Ai.

Output:
Print n numbers in one line. For each y from 1 to n ,print maximum threshold among all subarrays of size y.

Constraints:
1 <= T <= 20
1<= N <= 10^5
1<= A[i] <= 10^9

Time Limit : 2 sec
Memory Limit : 256 MB

Sample Input
2
3
1 2 3
10
1 2 3 4 5 6 5 4 3 2

Sample Output
3 2 1
6 5 5 4 4 3 3 2 2 1