

# 滑动窗口

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#include <bits/stdc++.h>
using namespace std;

const int N = 1e6 + 5;
int a[N], q[N];
int main(){
    int n, k;
    cin >> n >> k;
    for(int i = 0; i < n; i++) cin >> a[i];

    int hh = 0, tt = -1;
    for(int i = 0; i < n; i++){
        if(hh <= tt && i - k + 1 > q[hh]) hh++;
        while(hh <= tt && a[q[tt]] >= a[i]) tt--;
        q[++tt] = i;
        if(i >= k - 1) cout << a[q[hh]] << " ";
    }
    cout << '\n';

    hh = 0, tt = -1;
    for(int i = 0; i < n; i++){
        if(hh <= tt && i - k + 1 > q[hh]) hh++;
        while(hh <= tt && a[q[tt]] <= a[i]) tt--;
        q[++tt] = i;
        if(i >= k - 1) cout << a[q[hh]] << " ";
    }
    return 0;
}
```