Input-

7

12 1 78 90 57 89 56

3

Output-

78 90 90 90 89

Program-

#include <iostream>

#include<deque>

using namespace std;

void findKMax(int a[],int n,int k){

deque<int> q;

int i;

for(i=0;i<k;i++){

while((!q.empty()) && a[i]>=a[q.back()]){

q.pop\_back();

}

q.push\_back(i);

}

for(;i<n;i++){

cout<<a[q.front()]<<" ";

while((!q.empty()) && q.front()<=i-k){

q.pop\_front();

}

while((!q.empty()) && a[i]>=a[q.back()]){

q.pop\_back();

}

q.push\_back(i);

}

cout<<a[q.front()]<<" ";

}

int main() {

int n,k,i;

cin>>n;

int a[n];

for(i=0;i<n;i++){

cin>>a[i];

}

cin>>k;

findKMax(a,n,k);

return 0;

}