Print the elements greater than all the elements to its right

#include<iostream>

using namespace std;

int main()

{

int a[10],n,lead;

cout<<"Enter the number of elements in the array: ";

cin>>n;

cout<<"Enter the array elements: ";

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

cin>>a[i];

cout<<"The leaders of the array are: "<<endl;

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

{

lead = a[i];

for(int j=i+1;j<n;j++)

{

if(lead>a[j])

{

if(j == n-1)

{

cout<<lead<<" ";

}

}

else

{

break;

}

}

if(i == n-1)

{

cout<<lead<<" ";

}

}

return 0;

}