

单调栈

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

const int N = 2e5 + 5;
int stk[N], tot;

int main(){
    int n;
    cin >> n;
    for(int i = 0; i < n; i++){
        int x;
        cin >> x;
        while(tot && stk[tot] >= x){
            tot--;
        }
        if(tot) cout << stk[tot] << " ";
        else cout << -1 << " ";
        stk[++tot] = x;
    }
    return 0;
}
```