**Next Greater Element**

#include <bits/stdc++.h>

vector<int> nextGreater(vector<int> &arr, int n) {

stack<int> st;

vector<int> result(n);

st.push(-1);

for (int i = n - 1; i >= 0; i--) {

int current = arr[i];

while (!st.empty() && st.top() <= current) {

st.pop();

}

if (st.empty()) {

result[i] = -1;

} else {

result[i] = st.top();

}

st.push(current);

}

return result;

}