nums = {1, 2, 3, 4, 3}

```cpp
vector<int> nextGreaterElement (vector<int>& nums) {
    int n = nums.size();
    vector<int> ans(n, -1);
    stack<int> s;

    for(int i = 2*n-1; i>=0; i--) {
        while( s.size() > 0 && nums[s.top()] <=
                                nums[i%n] )
            s.pop();

        ans[i%n] = s.empty() ? -1 : nums[s.top()];
        s.push(i%n);
    }
    return ans;
}
```