***Week – 5 (26.04.2021 – 02.05.2021)***

***CODES IN PDF***

1. ***Valid Parentheses:***

class Solution {

public:

bool isValid(string s) {

stack <char> st;

int i;

for(i=0; i<s.size(); i++)

{

if(s[i] == '{' || s[i] == '[' || s[i] == '(') st.push(s[i]);

if(s[i] == '}' || s[i] == ']' || s[i] == ')')

{

if(st.size() == 0) return false;

else if(st.top() == '{' && s[i] == '}') st.pop();

else if(st.top() == '(' && s[i] == ')') st.pop();

else if(st.top() == '[' && s[i] == ']') st.pop();

else return false;

}

}

if(st.size() == 0)return true;

else return false;

}

};

1. ***Daily Temperatures:***

class Solution {

public:

vector<int> dailyTemperatures(vector<int>& T) {

vector<int> res;

stack<int> s;

int i;

for(i=T.size()-1; i>=0; i--)

{

while(!s.empty() && T[i] >= T[s.top()]) s.pop();

if(s.size() == 0) res.push\_back(0);

else if(T[s.top()]>T[i]) res.push\_back(s.top()-i);

s.push(i);

}

reverse(res.begin(), res.end());

return res;

}

};