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

***CODES BASED ON WEELKY TASK***

1. ***Replace Elements with Greatest Element on Right Side:***

class Solution {

public:

vector<int> replaceElements(vector<int>& arr) {

if(arr.size() < 2) return {-1};

stack<int> s;

vector<int> res;

int i;

s.push(\*max\_element(arr.begin(), arr.end()));

for(i=0; i<arr.size()-1; i++)

{

if(s.top() == arr[i])

{

s.pop();

s.push(\*max\_element(arr.begin()+i+1, arr.end()));

res.push\_back(s.top());

}

else res.push\_back(s.top());

}

res.push\_back(-1);

return res;

}

};

1. ***Reverse Substrings Between Each Pair of Parentheses:***

class Solution {

public:

string reverseParentheses(string s) {

stack<char> res;

string str="", r="";

int i = 0;

while(i<s.size())

{

if(s[i] == '(' || isalpha(s[i])) res.push(s[i]);

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

{

while(res.top() != '(')

{

str = str + res.top();

res.pop();

}

res.pop();

while(str.size()!=0)

{

res.push(str[0]);

str.erase(str.begin());

}

}

i++;

}

while(!res.empty())

{

r = res.top() + r;

res.pop();

}

return r;

}

};