***Week – 8 (******06.06.2021 – 12.06.2021)***

***RANDOM CODES***

1. ***Distant Barcodes:***

class Solution {

public:

vector<int> rearrangeBarcodes(vector<int>& barcodes) {

sort(barcodes.begin(), barcodes.end());

int i=1, j=2;

while(i<barcodes.size() && j<barcodes.size())

{

if(barcodes[i-1] == barcodes[i])

{

if(barcodes[i] != barcodes[j])

{

swap(barcodes[i],barcodes[j]);

i++;

}

j++;

}

else

{

i++;

j=i+1;

}

}

i = barcodes.size()-2;

j = barcodes.size()-3;

while(i>=0 && j>=0)

{

if(barcodes[i+1] == barcodes[i])

{

if(barcodes[i] != barcodes[j])

{

swap(barcodes[i],barcodes[j]);

i--;

}

j--;

}

else

{

i--;

j=i-1;

}

}

return barcodes;

}

};

1. ***Increasing Decreasing String:***

class Solution {

public:

string sortString(string s) {

string res="";

int i;

vector<int> freq(26, 0);

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

freq[s[i]-'a']++;

while(res.size()<s.size())

{

for(i=0; i<26; i++)

{

if(freq[i] > 0)

{

res.push\_back((char)'a'+i);

freq[i]--;

}

}

for(i=25; i>=0; i--)

{

if(freq[i] > 0)

{

res.push\_back((char)'a'+i);

freq[i]--;

}

}

}

return res;

}

};

1. ***Long Pressed Name:***

class Solution {

public:

bool isLongPressedName(string name, string typed) {

int i=0, j=0;

while(i<name.size() || j<typed.size())

{

if (i < name.size() && name[i] == typed[j]) ++i, ++j;

else if (i > 0 && name[i - 1] == typed[j]) ++j;

else return false;

}

return i == name.size();

}

};