Lecture 7 Strings

1. <https://leetcode.com/problems/container-with-most-water/>

class Solution {

public:

int maxArea(vector<int>& height) {

int n = height.size();

int i = 0;

int j = n-1;

int ans = INT\_MIN;

while(i<j)

{

if(height[i] < height[j])

{

ans = max(ans, height[i]\*(j-i));

i++;

}

else

{

ans = max(ans, height[j]\*(j-i));

j--;

}

}

return ans;

}

};

2 . <https://leetcode.com/problems/reverse-string/>

class Solution {

public:

void reverseString(vector<char>& s) {

int n = s.size();

int i = 0;

int j = n-1;

while(i<j)

{

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

i++;

j--;

}

}

};

3 . <https://leetcode.com/problems/to-lower-case/>

class Solution {

public:

string toLowerCase(string str) {

int n = str.size();

for(int i=0; i<n; i++)

{

// 65 to 90

if(str[i] <= 90 && str[i] >= 65)

{

str[i] += 32;

}

}

return str;

}

};

4. [https://practice.geeksforgeeks.org/problems/anagram-1587115620/1/?category[]=Strings&category[]=Strings&problemStatus=solved&page=1&query=category[]StringsproblemStatussolvedpage1category[]Strings#](https://practice.geeksforgeeks.org/problems/anagram-1587115620/1/?category%5b%5d=Strings&category%5b%5d=Strings&problemStatus=solved&page=1&query=category%5b%5dStringsproblemStatussolvedpage1category%5b%5dStrings#)

bool isAnagram(string s1, string s2){

// Your code here

if(s1.length()!=s2.length())

{

return false;

}

int arr[256] = {0};

for(int i=0; i<s1.length(); i++)

{

arr[s1[i]]++;

}

for(int i=0; i<s1.length(); i++)

{

arr[s2[i]]--;

}

for(int i=0; i<256; i++)

{

if(arr[i]!=0)

{

return false;

}

}

return true;

}

5. <https://leetcode.com/problems/consecutive-characters/>

class Solution {

public:

int maxPower(string s) {

int count = 1;

int n = s.size();

int ans = 1;

for(int i=1; i<n; i++)

{

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

{

count++;

}

else

{

count = 1;

}

ans = max(ans, count);

}

return ans;

}

};