Lecture 10 Strings

1. <https://leetcode.com/problems/factorial-trailing-zeroes/>

class Solution {

public:

int trailingZeroes(int n) {

int count = 0;

for(int i=5; n/i>=1; i\*=5)

{

count += n/i;

}

return count;

}

};

1. <https://leetcode.com/problems/count-and-say/>

class Solution {

public:

string countAndSay(int n) {

string s = "1";

n--;

while(n--)

{

string temp;

int i = 0;

while(i < s.size())

{

int count = 1;

while(i+1 < s.size() && s[i]==s[i+1])

{

count++;

i++;

}

temp += to\_string(count) + s[i];

i++;

}

s = temp;

}

return s;

}

};

1. <https://practice.geeksforgeeks.org/problems/pair-with-given-sum-in-a-sorted-array4940/1#>

int Countpair(int arr[], int n, int sum){

// Complete the function

int i = 0;

int j = n-1;

int count = 0;

while(i<j)

{

if(arr[i]+arr[j]==sum)

{

count++;

i++;

j--;

}

else if(arr[i] + arr[j] < sum)

{

i++;

}

else

{

j--;

}

}

if(count==0)

{

count = -1;

}

return count;

}

1. <https://leetcode.com/problems/add-binary/>

class Solution {

public:

string addBinary(string a, string b) {

int i = 0;

int lenA = a.size();

int lenB = b.size();

int carry = 0;

string res;

while(i<lenA || i<lenB || carry!=0)

{

int x = 0;

int y = 0;

if(i<lenA && a[lenA-1-i]=='1')

{

x = 1;

}

if(i<lenB && b[lenB-1-i]=='1')

{

y = 1;

}

int sum = x+y+carry;

res = to\_string(sum%2) + res;

carry = sum/2;

i++;

}

return res;

}

};