Reto Semestral – Ronda 3

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**322 – Coin Change (Leetcode, medium)**

class Solution {

public:

int coinChange(vector<int>& monedas, int iCambio) {

int minCambio[iCambio+1];

minCambio[0] = 0;

for(int i = 1; i<=iCambio; i++) {

minCambio[i] = 99999;

}

for(int i = 1; i<=iCambio; i++) {

for(int j = 0; j< monedas.size(); j++) {

if(monedas[j]<=i) {

if(minCambio[i-monedas[j]] < minCambio[i]) {

minCambio[i] = minCambio[i-monedas[j]] + 1;

}

}

}

}

if(minCambio[iCambio] == 99999){

return -1;

}

return minCambio[iCambio];

}

};

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**921 – Minimum Add to Make Parenthesis Valid (Leetcode, medium)**

class Solution {

public:

int minAddToMakeValid(string S) {

int iSize = S.size();

int left=0, right=0, i = 0;

while(i < iSize){

if(S[i] == '('){

while(S[i] == '('){

right++;

i++;

}

while(S[i] == ')' && right>0){

right--;

i++;

}

}

else{

left++;

i++;

}

}

return left+right;

}

};

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**944 – Delete Columns to Make Sorted (Leetcode, easy)**

class Solution {

public:

int minDeletionSize(vector<string>& A) {

int iCount = 0, strLeng = A[0].length(), vecSize = A.size();

//Checar para cada char del string

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

{

//Checar para cada elemento del vector

for(int j=0; j<vecSize-1; j++)

{

string temp1 = A[j], temp2 = A[j+1];

if(temp1[i] > temp2[i])

{

iCount++;

break; //Salir del ciclo para el índice i actual

}

}

}

return iCount;

}

};

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**122 – Best Time to Buy and Sell Stock II (Leetcode, easy)**

class Solution {

public:

int maxProfit(vector<int>& prices) {

int iSize = prices.size();

int iSum = 0;

for(int i=0; i<iSize-1; i++)

{

//Si el día sig están más caras que el día actual, comprar

if(prices[i]<prices[i+1])

{

//Diferencia entre el día de compra y el día de venta

iSum += prices[i+1] - prices[i];

}

}

return iSum;

}

};

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**860 – Lemonade Change (Leetcode, easy)**

class Solution {

public:

bool lemonadeChange(vector<int>& bills) {

int amount[3] = {0}, iSize = bills.size();

bool result = true;

for(int i=0; i<iSize; i++){

switch (bills[i]){

case 5:

amount[0]++;

break;

case 10:

if(amount[0]<1){

result = false;

break;

}

amount[1]++;

amount[0]--;

break;

case 20:

if(amount[0]>0 && amount[1]>0){

amount[0]--;

amount[1]--;

amount[2]++;

break;

}

else if(amount[0]>2){

amount[0] -= 3;

amount[2]++;

break;

}

else{

result = false;

break;

}

}

}

return result;

}

};

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