

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Experiment-8

Student Name: Kanishk Soni
Branch: BE-CSE
Semester: 6th
Subject Code: 20CSP-351

UID: 20BCS9398
Section/Group: 20BCS_DM-708B
Subject Name: Competitive Coding-II

AIM: To demonstrate the concept of Greedy.

Problem1: Best Time to Buy and Sell Stock II

<https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/>

Program Code:

```
class Solution {  
public:  
    int maxProfit(vector<int>& prices) {  
        int max=0;  
        for(int i=1; i<prices.size(); i++) {  
            int x = prices[i] - prices[i-1];  
            if(x > 0) {  
                max += x;  
            }  
        }  
        return max;  
    }  
};
```

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Output:

Accepted

Next question

123. Best Time to Buy and Sell Stock III

More challenges

121. Best Time to Buy and Sell Stock

123. Best Time to Buy and Sell Stock III

188. Best Time to Buy and Sell Stock IV

All statuses All languages

Accepted a few seconds ago C++

Accepted 6 minutes ago C++

Accepted 8 minutes ago C++

Runtime 7 ms Beats 72.9% Memory 12.9 MB Beats 90.99%

Click the distribution chart to view more details

Notes

Write your notes here

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```
class Solution {
public:
    int maxProfit(vector<int>& prices) {
        int max=0;
        for(int i=1; i<prices.size(); i++) {
            int x = prices[i] - prices[i-1];
            if(x > 0) {
                max += x;
            }
        }
        return max;
    }
};
```

Problem2: Assign Cookies

<https://leetcode.com/problems/assign-cookies/>

Program Code:

```
class Solution {
public:
    int findContentChildren(vector<int>& g, vector<int>& s) {
        sort(begin(g), end(g));
        sort(begin(s), end(s));
        int i = 0;
        for (int j = 0; j < s.size() && i < g.size(); ++j){
            if (g[i] <= s[j]) {
                ++i;
            }
        }
        return i;
    }
};
```

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};

Output:

Accepted

Next question

456. 132 Pattern

More challenges

1000. Minimum Cost to Merge Stones

2366. Minimum Replacements to Sort the Array

1630. Arithmetic Subarrays

All statuses

All languages

Accepted

a few seconds ago

C++

Kanishk

May 09, 2023 21:11

Details

+ Solution

C++

Runtime 31 ms

Beats 66.80%

Memory 17.5 MB

Beats 33.15%

Click the distribution chart to view more details

Notes

Write your notes here

Related Tags

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```
class Solution {
public:
    int findContentChildren(vector<int>& g, vector<int>& s) {
        sort(begin(g), end(g));
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        int i = 0;
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            if (g[i] <= s[j]) {
                ++i;
            }
        }
        return i;
    }
};
```