## **Experiment 3.3**

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Branch: CSE Section/Group: 608/A

Semester: 6 Date of Performance: 03/05/2023

Subject Name: Competitive Coding-II Subject Code: 20CSP-351

**Aim:** To demonstrate the concept of Dynamic Programming

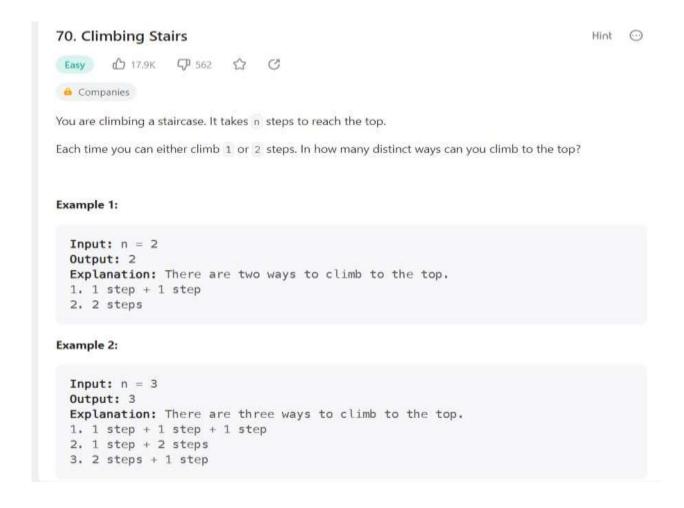
### **Objective:**

Best time to buy and sell the stock: <a href="https://leetcode.com/problems/best-time-to-buy-and-sell-stock">https://leetcode.com/problems/best-time-to-buy-and-sell-stock</a>/

#### Code:

```
public int
class Solution {
maxProfit(int[] prices) {
   int 1st
   int op = 0;
int pist = 0;
          for(int i = 0; i < prices.length; i++){</pre>
if(prices[i] < lsf){</pre>
                                                         lsf =
prices[i];
                }
                pist = prices[i] - lsf;
if(op < pist){</pre>
                                          op =
pist;
                }
}
             return
op;
     }
}
   Java
                                               Beats 92.79%
                                                              Memory 59.6 MB
                                                                                                          Beats 20.349
   Runtime 2 ms
                                            Click the distribution chart to view more details
  Notes
   Write your notes here
  Related Tags
   Select tags
                                                                                                                  0/5
   class Solution (
       public int maxProfit(int[] prices) (
          int lsf = Integer.MAX_VALUE;
           int op = \theta;
           int pist = 0;
           for(int i = 0; i < prices.length; <math>i++){
 Console ^
```

Climbing Stairs: <a href="https://leetcode.com/problems/climbing-stairs/">https://leetcode.com/problems/climbing-stairs/</a>



#### Code:

# **Output:**

