



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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EXPERIMENT -1.3

NAME- Jatin

UID- 20BCS5951

BRANCH- BE- CSE

SECTION- DM 605 B

SEMESTER- 6th

DATE- 06/03/2023

SUBJECT- CC Lab- 2

SUBJECT CODE- 20CSP-351

Q1. Last Stone Weight

CODE:

```
class Solution {  
    public int lastStoneWeight(int[] stones)  
    {  
        int n=stones.length;  
        while(n>1) {  
            Arrays.sort(stones);  
            int x=stones[n-1]-stones[n-2];  
            n--;  
            stones[n-1]=x;  
        }  
        return stones[0];  
    }  
}
```

Output :



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The screenshot shows a web browser with multiple tabs. The active tab is 'Last Stone Weight - LeetCode'. The URL is 'leetcode.com/problems/last-stone-weight/submissions/910233704/'. The page displays a submission for the 'Last Stone Weight' problem, which has been accepted. The submission is by a user named 'Jatin' on March 06, 2023, at 20:56. The submission is in Java. The runtime is 1 ms, and the memory is 40.4 MB. The submission beats 97.91% of other submissions for runtime and 21.28% for memory. The page also shows a list of other challenges, including '1047. Remove All Adjacent Duplicates In String', '51. N-Queens', '1073. Adding Two Negabinary Numbers', and '1352. Product of the Last K Numbers'. The submission details section shows the code for the 'lastStoneWeight' function, which sorts the stones and repeatedly removes the two largest stones until only one remains.

Course: 20CSP-351_20BCS_NTTP_DM-605_B :- COI

LeetCode

Problem List

Premium

Description Editorial Solutions (4.1K) Submissions

Accepted

Next question

- 1047. Remove All Adjacent Duplicates In String

More challenges

- 51. N-Queens
- 1073. Adding Two Negabinary Numbers
- 1352. Product of the Last K Numbers

All statuses All languages

Accepted in a few seconds Java

Accepted 2 minutes ago Java

Close

Jatin Mar 06, 2023 20:56

Details + Solution

Java

Runtime 1 ms Beats 97.91% Memory 40.4 MB Beats 21.28%

Click the distribution chart to view more details

Notes

Write your notes here

Related Tags

Select tags 0/5

```
class Solution {
    public int lastStoneWeight(int[] stones) {
        int n=stones.length;
        while(n>1){
            Arrays.sort(stones);
            int y=stones[n-1]-stones[n-2];
        }
    }
}
```

Console Run Submit

Q2 Cheapest Flights Within K Stops
Code :



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```
class Solution {
    public int findCheapestPrice(int n, int[][] flights, int src, int dst, int k)
    {
        Map<Integer, List<int[]>> map = new HashMap<>();
        for (int i = 0; i < n; i++) map.put(i, new ArrayList<>());
        for (int[] flight : flights) map.get(flight[0]).add(new int[] {flight[1], flight[2]});

        LinkedList<int[]> bfs = new LinkedList<>();
        bfs.add(new int[] {src, 0});

        int[] visited = new int[n];
        Arrays.fill(visited, Integer.MAX_VALUE);

        int res = Integer.MAX_VALUE;
        int stops = 0;
        while (stops++ <= k) {
            int size = bfs.size();

            while (size-- > 0) {
                int[] dest = bfs.remove();
                for (int[] route : map.get(dest[0]))
                {
                    int price = dest[1] + route[1];

                    if (dst == route[0]) {
                        res = Math.min(res, price);
                    } else {
                        if (visited[route[0]] > price) {
                            visited[route[0]] = price;
                            bfs.add(new int[] {route[0], price});
                        }
                    }
                }
            }
        }

        return res == Integer.MAX_VALUE ? -1 : res;
    }
}
```

Output :



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Course: 20CSP-351_20BCS_NTTP_DM-605_B : CON | Cheapest Flights Within K Stops - LeetCode | New Tab

leetcode.com/problems/cheapest-flights-within-k-stops/submissions/910235494/

LeetCode

Problem List

Premium

Description Editorial Solutions (1.9K) Submissions

Accepted

Next question

788. Rotated Digits

More challenges

568. Maximum Vacation Days 2093. Minimum Cost to Reach City With Discounts

All statuses All languages

Accepted in a few seconds Java

Jatin Mar 06, 2023 20:59

Details + Solution

Java

Runtime 6 ms Beats 72.38% Memory 43.3 MB Beats 76.96%

Click the distribution chart to view more details

Notes

Write your notes here

Related Tags

Select tags 0/5

```
class Solution {
    public int findCheapestPrice(int n, int[][] flights, int src, int dst,
                               Map<Integer, List<int[]>> map = new HashMap<>());
    for (int i = 0; i < n; i++) map.put(i, new ArrayList<>());
    for (int[] flight : flights) map.get(flight[0]).add(new int[] {fli
```

Console ^

Run Submit