

# DSA Assignment - 17 June

Name - Arpit Mahala

Roll.No - 23/11/EC/025

LeetCode Id - <https://leetcode.com/u/Arpit-Mahala/>

GeekforGeeks- <https://www.geeksforgeeks.org/user/arpitmay36m/>

Github Repo Link -

[https://github.com/Arpit-Mahala1/2025\\_Internship\\_Training](https://github.com/Arpit-Mahala1/2025_Internship_Training)

DSA- Section -

Question 1: Reverse digits

Platform: GeeksforGeeks

Problem Link:

<https://www.geeksforgeeks.org/problems/reverse-digits/1>

Submission Screenshot:

## Output Window



### Compilation Results

Custom Input

Y.O.G.I. (AI Bot)

### Problem Solved Successfully

[Suggest Feedback](#)

Test Cases Passed

**100 / 100**

Attempts : Correct / Total

**1 / 1**

Accuracy : 100%

Points Scored

**1 / 1**

Your Total Score: 1

Time Taken

**0.01**

### Suggested Contest

Based on your excellent performance, we believe you are fully prepared to participate in this upcoming contest.



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My Submissions



Time (IST)	Status	Marks	Lang	Test Cases	Code
2025-06-17 14:03:30	Correct	1	cpp	100 / 100	<a href="#">View</a>

C++ (g++ 5.4)

Start Timer

```
1 class Solution {
2 public:
3     int reverseBits(int n) {
4         int rev=0;
5         int remainder;
6         while(n>0){
7             remainder= n%10;
8             rev= rev*10 + remainder;
9             n=n/10;
10        }
11        return rev;
12    }
13 }
14 };
```

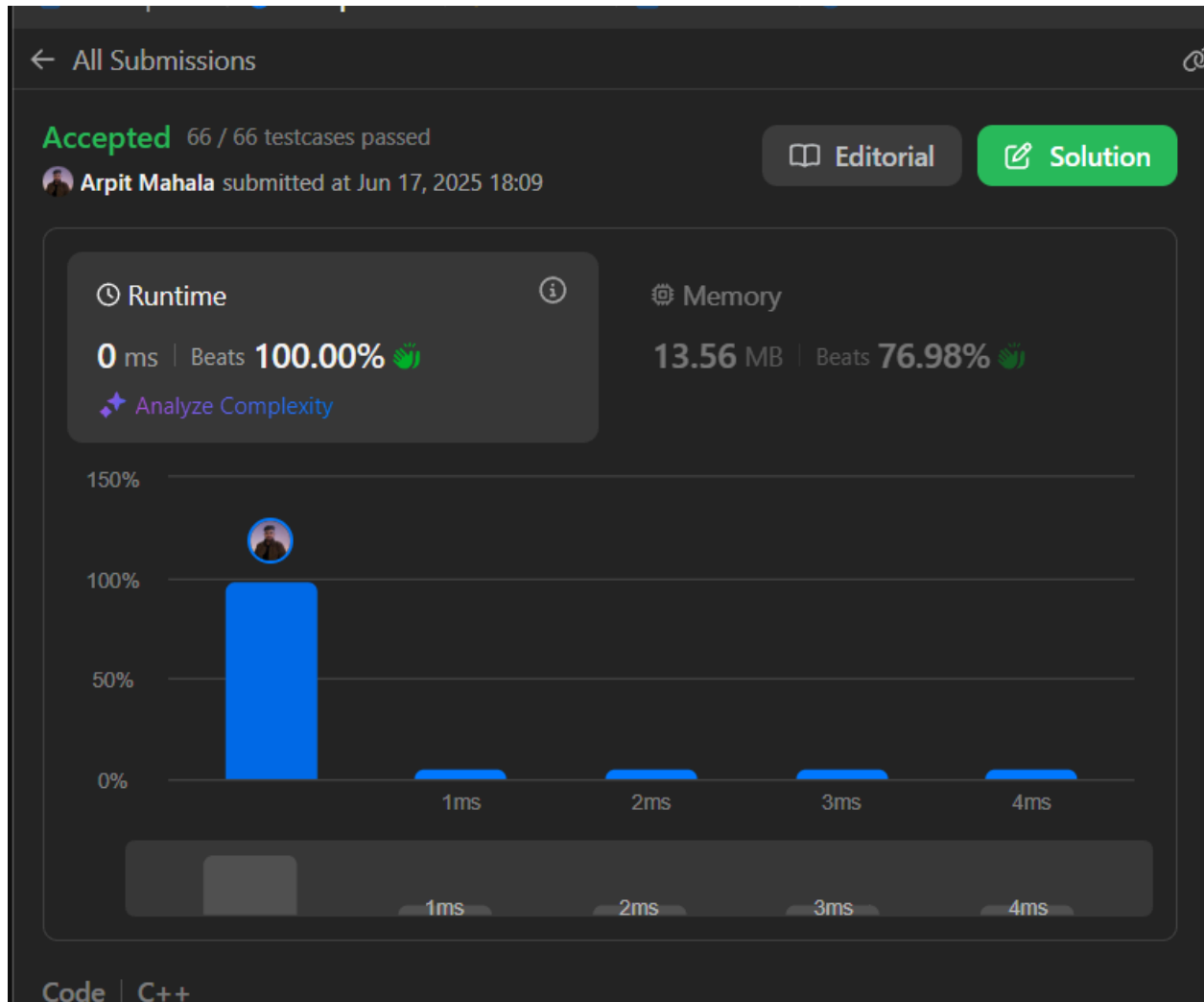
## Question 2: Search Insert Position

Platform: LeetCode

Problem Link:

<https://leetcode.com/problems/search-insert-position/>

Submission Screenshot:



## Question 3: Single Number

Platform: LeetCode

Problem Link: <https://leetcode.com/problems/single-number/>

Submission Screenshot:

The screenshot displays the LeetCode submission interface for the 'Single Number' problem. The top navigation bar includes links for Description, Accepted (61 / 61 testcases passed), Editorial, Solutions, and Submissions. The submission is by 'Arpit Mahala' and was submitted on Jun 17, 2025 at 22:49.

**Runtime and Memory Statistics:**

- Runtime: 0 ms, Beats 100.00%
- Memory: 20.74 MB, Beats 27.21%

A bar chart shows the runtime performance, with the user's submission (blue bar) at 0 ms, significantly faster than the 5ms to 25ms range of other submissions.

**Code Editor:**

```
class Solution {
public:
    int singleNumber(vector<int>& nums) {
        int n=nums.size();
        int ans=0;
        for(int i=0; i<n; i++){
            ans = ans^nums[i];
        }
        return ans;
    }
};
```

**Testcase Results:**

- Accepted (Runtime: 0 ms)
- Case 1: Input: nums = [2,2,1], Output: 1
- Case 2: Input: nums = [4,1,4], Output: 1
- Case 3: Input: nums = [1,2,2,1,3], Output: 3

## Question 4: Missing Number

Platform: LeetCode

Problem Link:

<https://leetcode.com/problems/missing-number/description/>

Submission Screenshot:

The screenshot displays the LeetCode submission interface for the 'Missing Number' problem. The top navigation bar includes links for Description, Accepted (122 / 122 testcases passed), Editorial, Solutions, and Submissions. The submission is by 'Arpit Mahala' and was submitted on Jun 17, 2025 at 23:18.

**Runtime and Memory Performance:**

- Runtime: 0 ms, Beats 100.00%
- Memory: 21.75 MB, Beats 70.36%

A bar chart shows the runtime performance across various test cases, with the user's solution (blue bar) performing at the top (0 ms).

**Code Editor:**

```
1 class Solution {
2 public:
3     int missingNumber(vector<int>& nums) {
4         int n=nums.size();
5         int expectedSum=0;
6         int realSum= 0;
7         for(int i=1; i<=n; i++){
8             expectedSum+= i;
9         }
10        for(int i=0; i<n; i++){
11            realSum+= nums[i];
12        }
13        return expectedSum-realSum;
14    }
15};
```

**Test Results:**

- Accepted (Runtime: 0 ms)
- Case 1 (Selected)
- Case 2
- Case 3

**Input:**

```
nums = [3,0,1]
```