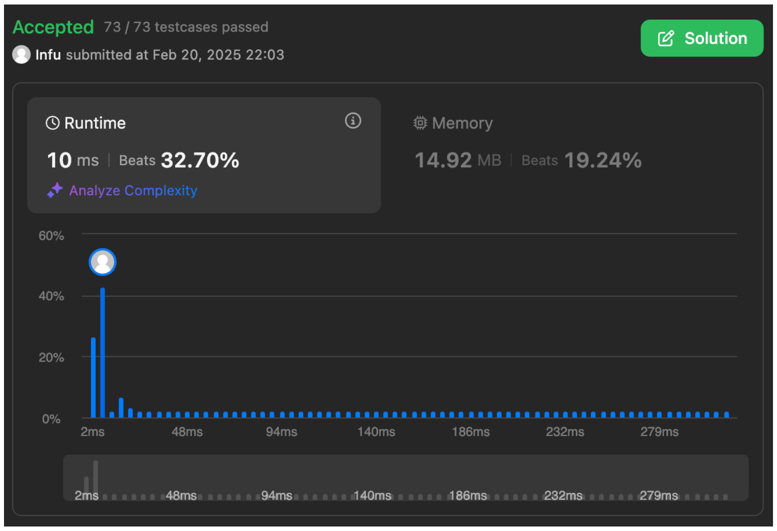
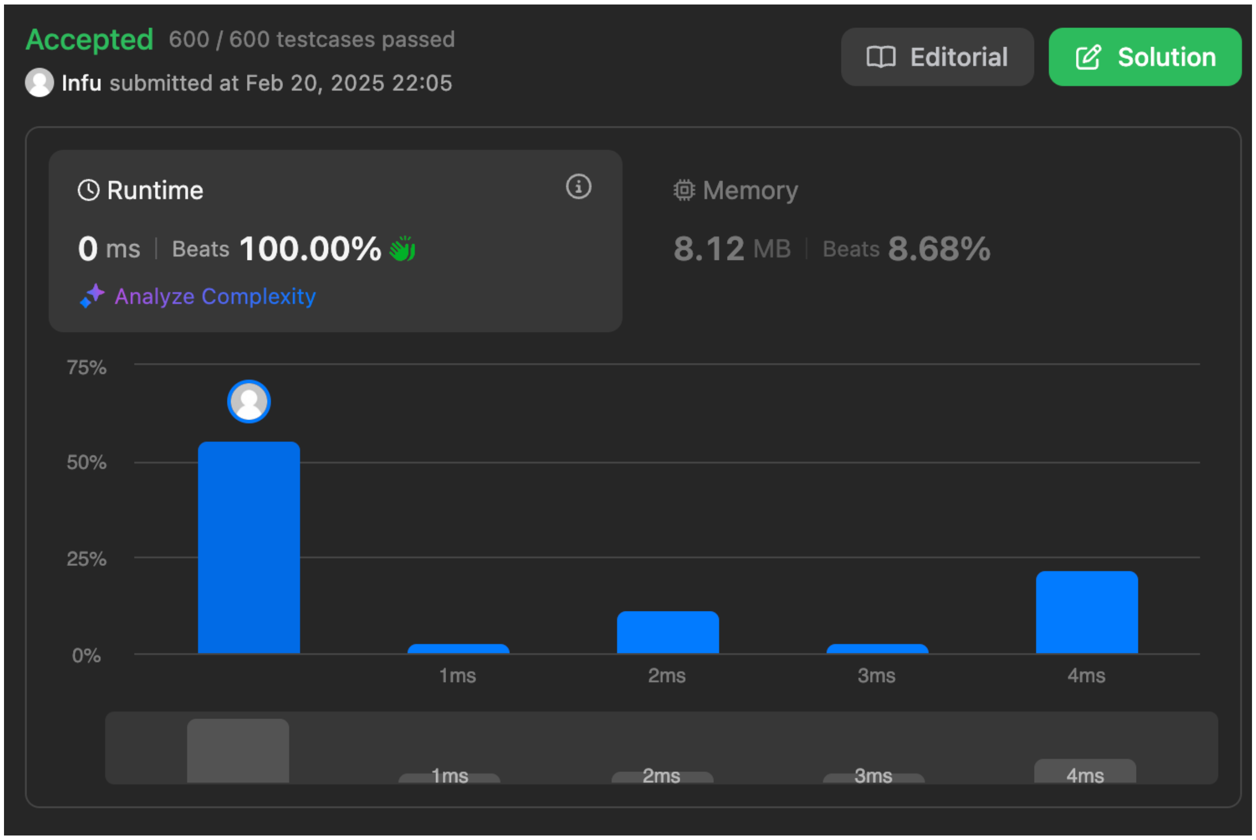
1763. Longest Nice Substring

```
class Solution {

public:

    string longestNiceSubstring(string s) {

        unordered_set<char> missing;

        for (char c : s) {

            if (islower(c)) missing.insert(toupper(c));

            else missing.insert(tolower(c));

        }

        for (int i = 0; i < s.size(); i++) {

            if (missing.count(s[i])) {

                continue;

            }

            string s1 = longestNiceSubstring(s.substr(0, i));

            string s2 = longestNiceSubstring(s.substr(i + 1));

            return s1.size() >= s2.size() ? s1 : s2;

        }

        return s;

    }

};
```


Accepted 73 / 73 testcases passed
Infu submitted at Feb 20, 2025 22:03

190. Reverse Bits

```
class Solution {
public:
    uint32_t reverseBits(uint32_t n)
    {
        string bits = bitset<32>(n).to_string();
        reverse(bits.begin(), bits.end());

        int ans = stoll(bits, NULL, 2);
        return ans;
    }
};
```


Accepted 600 / 600 testcases passed

Infu submitted at Feb 20, 2025 22:05

Runtime

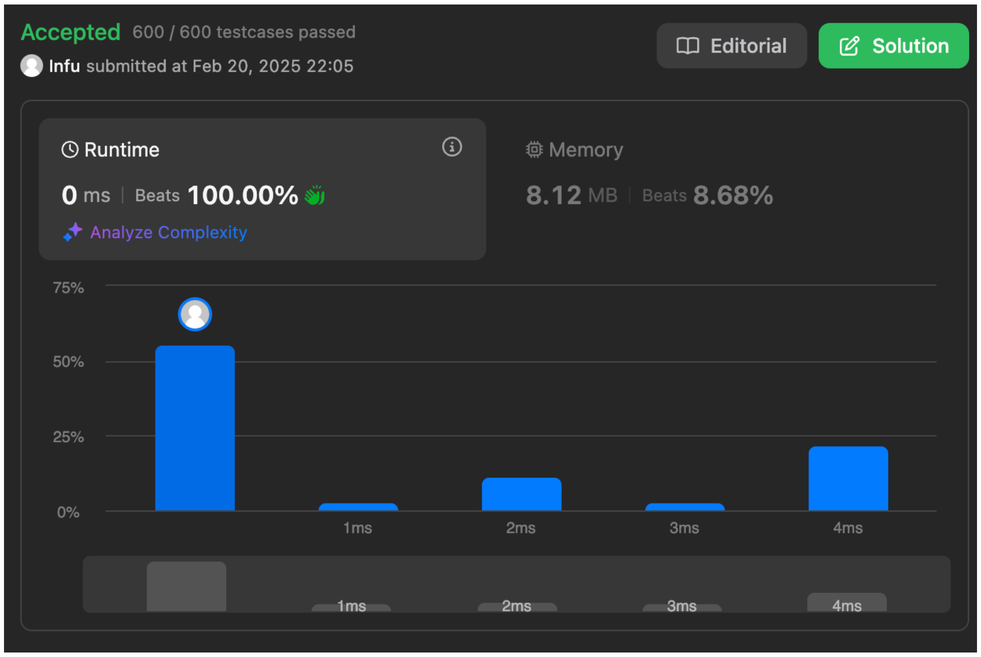
0 ms | Beats 100.00%

Memory

8.12 MB | Beats 8.68%

191. Number of 1 Bits

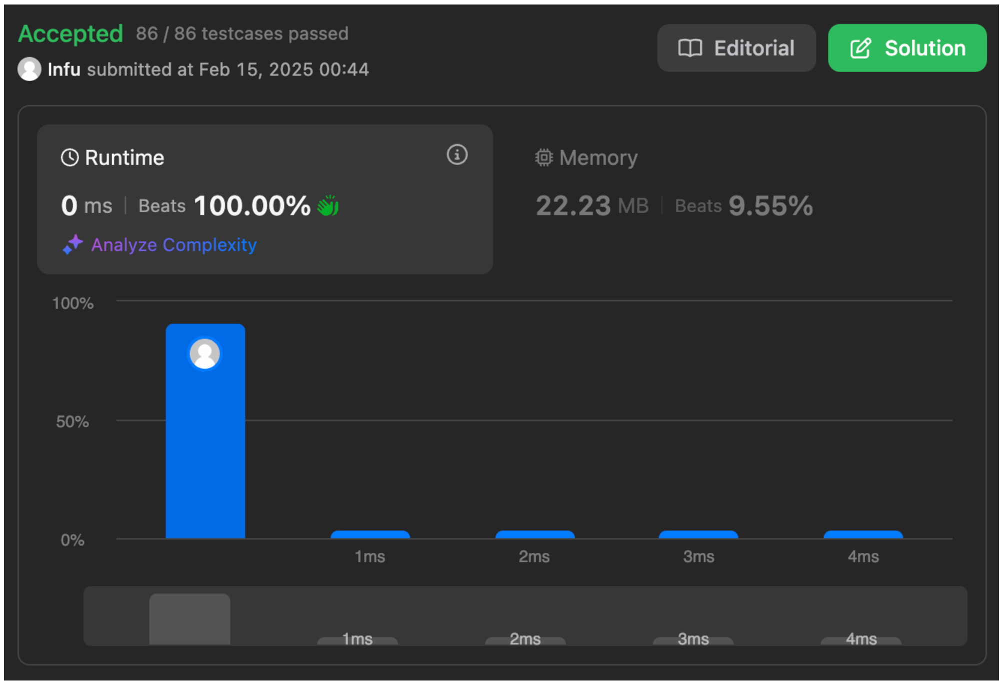
```
class Solution {
public:
    int hammingWeight(int n) {
        stack<int> s;
        while(n){
            s.push(n % 2);
            n = n / 2;
        }
        int count = 0;
        while(!s.empty()){
            if(s.top() == 1) count++;
            s.pop();
        }
        return count;
    }
};
```


Accepted 600 / 600 testcases passed

Infu submitted at Feb 20, 2025 22:05

98. Validate Binary Search Tree

```
class Solution {
public:
    void inorder(TreeNode *root,vector<int>&ans)
    {
        if (root == NULL)
            return;
        inorder(root->left,ans);
        ans.push_back(root->val);
        inorder(root->right,ans);
    }
    bool isValidBST(TreeNode* root)
    {
        vector<int>ans;
        inorder(root,ans);
        for(int i=1;i<ans.size();i++)
        {
            if(ans[i]<=ans[i-1])
            {
                return false;
            }
        }
        return true;
    }
};
```



Accepted 86 / 86 testcases passed

Infu submitted at Feb 15, 2025 00:44

Runtime

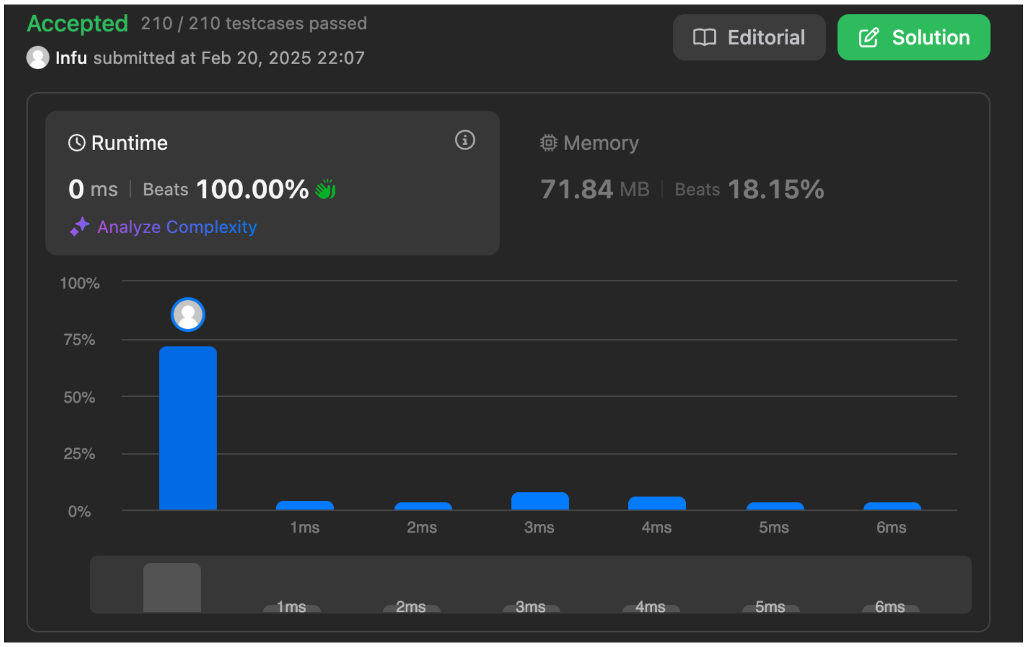
0 ms | Beats 100.00%

Memory

22.23 MB | Beats 9.55%

53. Maximum Subarray

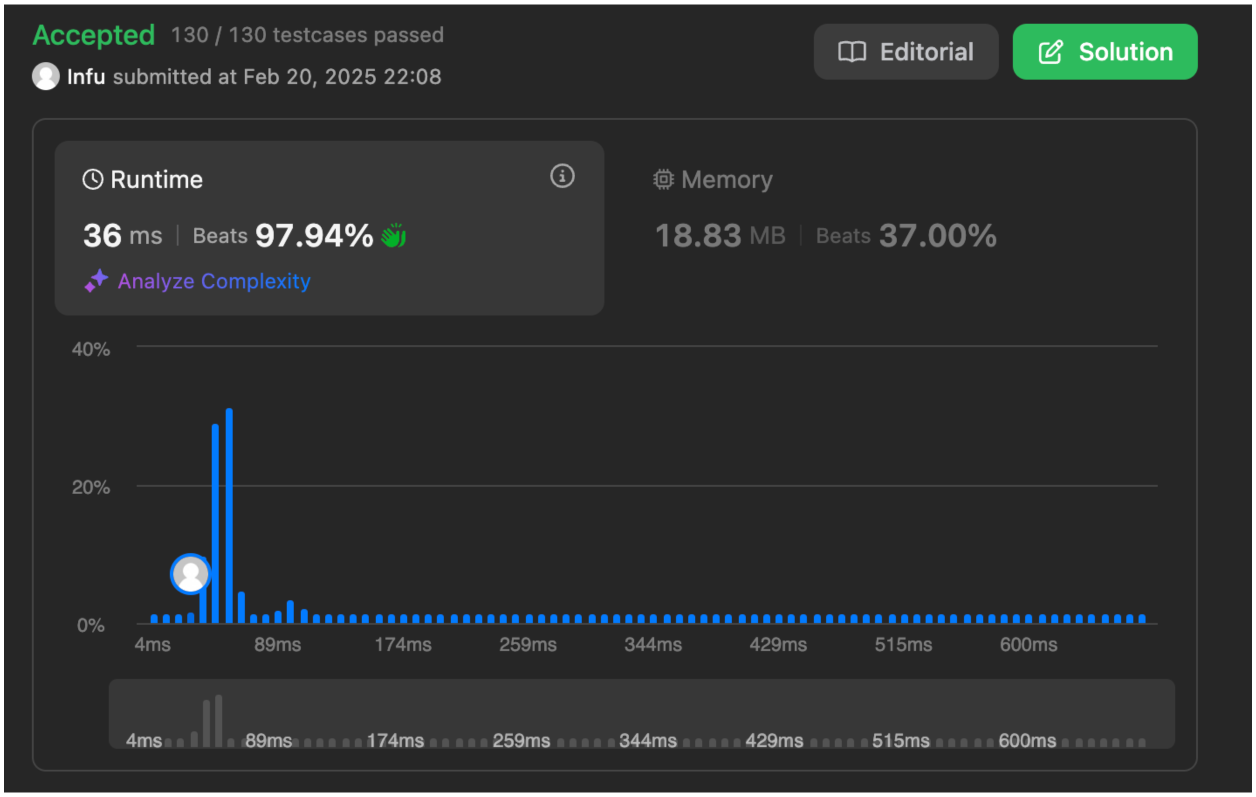
```
class Solution {
public:
    int maxSubArray(vector<int>& arr) {
    long long maxi = LONG_MIN; // maximum sum
    long long sum = 0;
    int n = arr.size();

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

        sum += arr[i];

        if (sum > maxi) {
            maxi = sum;
        }
        if (sum < 0) {
            sum = 0;
        }
    }

    return maxi;
    }
};
```


Accepted 210 / 210 testcases passed

Infu submitted at Feb 20, 2025 22:07

240. Search a 2D Matrix II

```
class Solution {
public:
    bool searchMatrix(vector<vector<int>>& matrix, int target) {
        int cols = matrix[0].size() - 1;
        int n = matrix.size() - 1;
        int rows = 0;


        while(rows <= n && cols >= 0){
            int toCompare = matrix[rows][cols];
            if(toCompare > target){
                cols--;
            }else if(toCompare < target){
                rows++;
            }else{
                return true;
            }
        }

        return false;
    }
};
```

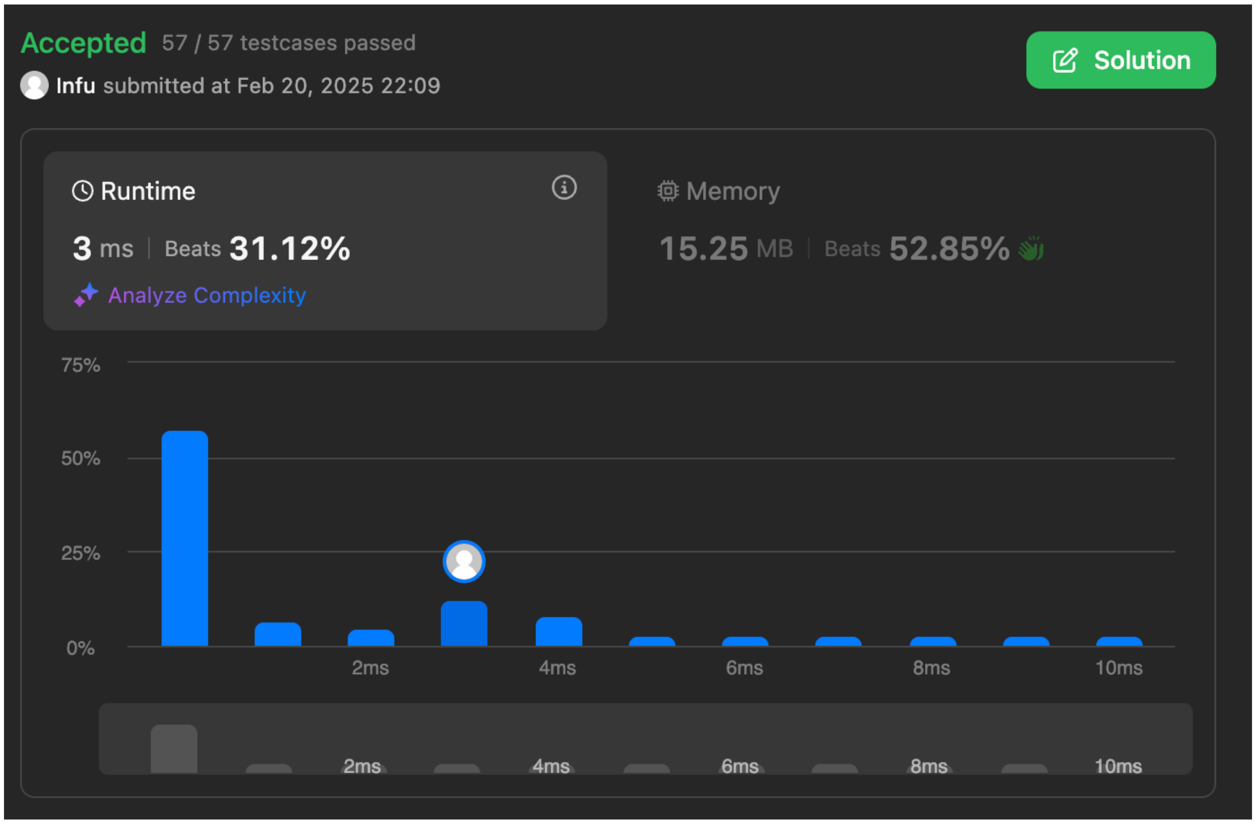


Accepted 130 / 130 testcases passed

Infu submitted at Feb 20, 2025 22:08

372. Super Pow

```
class Solution {
public:
    int pow(int a, int b){
        if(b==0) return 1;
        int temp=pow(a,b/2);
        if(b%2==0) return ((temp%1337)*temp%1337)%1337;
        else return (a%1337*((temp%1337*temp%1337)%1337))%1337;
    }
    int superPow(int a, vector<int>& b) {
        if(b.size()==0) return 1;
        int x=b.back(); b.pop_back();
        return pow(superPow(a, b), 10) * pow(a, x) % 1337;
    }
};
```



Accepted 57 / 57 testcases passed

Infu submitted at Feb 20, 2025 22:09

Runtime

3 ms | Beats 31.12%

Memory

15.25 MB | Beats 52.85%