


NAME- Abir Chakraborty | UID- 22BCS14321 | SECTION- 601/A

1 Pascal Triangle


```
class Solution {
public:
    vector<vector<int>> generate(int n) {
        vector<vector<int>> ans;
        for (int row = 1; row <= n; row++)
            ans.push_back(pascalTriangle(row));
        return ans;
    }
private:
    vector<int> pascalTriangle(int row) {
        vector<int> ansRow;
        long long ans = 1;
        ansRow.push_back(1);
        for (int col = 1; col < row; col++) {
            ans = ans * (row - col) / col;
            ansRow.push_back(ans);
        }
        return ansRow;
    }
};
```

Accepted 30 / 30 testcases passed

 **Abir Chakraborty** submitted at Apr 16, 2025 10:03

 Editorial

 Solution


 Runtime

0 ms | Beats 100.00% 


2. Hamming Distance


```
class Solution {  
    public:  
        int hammingDistance(int x, int y) {  
            int dist = 0, n = x ^ y;  
            while (n) {  
                ++dist;  
                n &= n - 1;  
            }  
            return dist;  
        }  
};
```

Accepted 149 / 149 testcases passed

 **Abir Chakraborty** submitted at Apr 16, 2025 10:08

 Editorial

 Solution

 Runtime




0 ms | Beats **100.00%** 🌟

🔮 [Analyze Complexity](#)

3. Task Scheduler

```
class Solution {
public:
    int leastInterval(vector<char>& tasks, int n) {
        vector<int> mp(26, 0);
        int max_freq = 0, count_maxfreq = 0, sz = tasks.size();
        for (char i : tasks) {
            mp[i - 'A']++;
            if (mp[i - 'A'] > max_freq) {
                max_freq = mp[i - 'A'];
            }
        }
        for (int i = 0; i < 26; i++) {
            if (mp[i] == max_freq) count_maxfreq++;
        }
        int time = (max_freq - 1) * (n + 1) + count_maxfreq;
        return max(time, sz);
    }
};
```

Accepted 41 / 41 testcases passed


 **Abir Chakraborty** submitted at Apr 16, 2025 10:47


 Editorial

 **Solution**

 Runtime



63 ms | Beats **96.92%** 


 [Analyze Complexity](#)

4. Number of 1 bits

```
class Solution {  
public:  
    int hammingWeight(uint32_t n) {  
        int res = 0;  
        for (int i = 0; i < 32; i++) {  
            if ((n >> i) & 1) {  
                res += 1;  
            }  
        }  
        return res;  
    }  
};
```



[← All Submissions](#)


Accepted 598 / 598 testcases passed


 **Abir Chakraborty** submitted at Apr 16, 2025 10:49


[Editorial](#)

[Solution](#)

 **Runtime** 

0 ms | Beats **100.00%** 

 [Analyze Complexity](#)


 **Memory**

8.38 MB | Beats **11.83%**

5. Valid Parenthesis

```
class Solution {
public:
    bool isValid(string s) {
        stack<char> st;
        for (auto it : s) {
            if (it == '(' || it == '{' || it == '[')
                st.push(it);
            else {
                if (st.size() == 0)
                    return false;
                char ch = st.top();
                st.pop();
                if ((it == ')' and ch == '(') or (it == ']' and ch == '[') or
                    (it == '}' and ch == '{'))
                    continue;
                else
                    return false;
            }
        }
        return st.empty();
    }
};
```

Accepted 100 / 100 testcases passed

 **Abir Chakraborty** submitted at Apr 16, 2025 10:50

 Editorial

 **Solution**

 Runtime



0 ms | Beats **100.00%** 🏆

🔮 [Analyze Complexity](#)