**NAME: MOAZZAM FAROOQUI** 

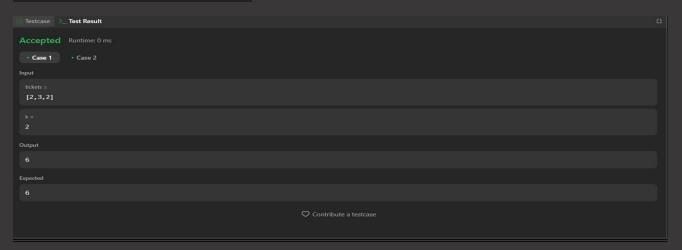
**ROLL NO: CT-24068** 

**COURSE CODE: CT-159** 

#### **ASSIGNMENT: DSA PRACTICE SESSION TASK#4**

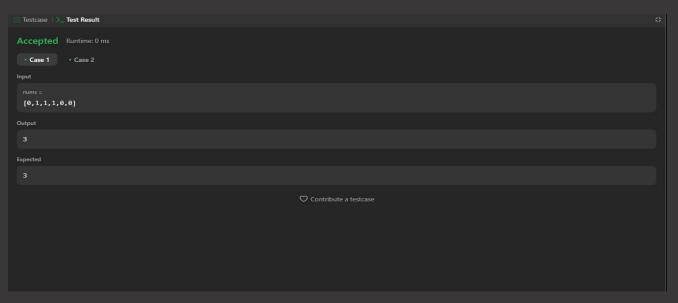
Q1. Time Needed to Buy Tickets

#### **SOURCE CODE:**



#### Q2. Minimum Operations to Make Binary Array Elements Equal to One

# **SOURCE CODE:**

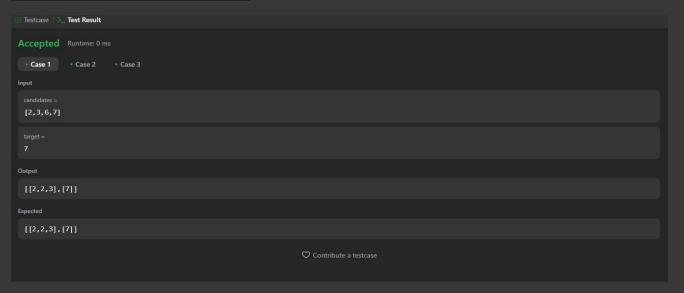


### Q3. Combination Sum

# **SOURCE CODE:**

```
### Code

#### Creation | Creatio
```



#### Q4. Generate Parenthesis

## **SOURCE CODE:**

```
</>Code
         vector<string> generateParenthesis(int n) {
           vector<string>ans;
            string current;
            backtrack(ans,current,0,0,n);
         void backtrack(vector<string>&ans,string&current,int open,int close,int n){
                 if(current.size()==2*n){
                    ans.push_back(current);
                 if(open<n){
                   current.push_back('(');
                    backtrack(ans,current,open+1,close,n);
                    current.pop_back();
                 if(close<open){
                    current.push_back(')');
                    backtrack(ans,current,open,close+1,n);
                    current.pop_back();
```

