



## Experiment 2.2

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**Subject Code: 20CSP-351**

**Subject Name: Competitive Coding-II**

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1. **Aim:** To demonstrate the concept of Graph Problem1: Fin
2. **Objective:** The objective is to solve problem of graphs using its methods
3. **Code and output:**

**Problem 1: Find the Difference**

**Code:**

```
class Solution {  
    public char findTheDifference(String s, String t) {  
        char c=0;  
        for(char cs:s.toCharArray()) {  
            c^=cs;  
        }  
        for(char ct:t.toCharArray()) {  
            c^=ct;  
        }  
        return c;  
    }  
}
```

**Output:**



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Accepted Runtime: 0 ms

• Case 1 • Case 2

Input

s =  
"abcd"

t =  
"abcde"

Output

"e"

Expected

"e"

## Problem 2: Predict the Winner

### Code:

```
class Solution {
    public boolean PredictTheWinner(int[] nums) {
        return process(nums, 0, nums.length - 1) >= 0;
    }
    private int process(int[] nums, int start, int end) {
        if (start == end) {
            return nums[start];
        }
        return Math.max(nums[start] - process(nums, start + 1, end), nums[end]
- process(nums, start, end - 1));
    }
}
```

### Output:



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Accepted Runtime: 0 ms

- Case 1
- Case 2

Input

```
nums =  
[1,5,2]
```

Output

```
false
```

Expected

```
false
```