



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Experiment 1

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Semester: 6TH

Subject Name: AP LAB 2

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Subject Code: 22CSP-351

1. Aim: Arrays And Logic Building

a. Two Sum

b. Jump Game

2. Code:

```
a. class Solution {  
    public int[] twoSum(int[] nums, int target) {  
        int n = nums.length;  
        for (int i = 0; i < n - 1; i++) {  
            for (int j = i + 1; j < n; j++) {  
                if (nums[i] + nums[j] == target) {  
                    return new int[] {i, j};  
                }  
            }  
        }  
        return new int[] {}; // No solution found  
    }  
}
```

```
b. class Solution {  
    public boolean canJump(int[] nums) {  
        int goal = nums.length - 1;  
  
        for (int i = nums.length - 2; i >= 0; i--) {  
            if (i + nums[i] >= goal) {  
                goal = i;  
            }  
        }  
    }  
}
```



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```
    return goal == 0;
  }
}
```

3. Output:

a.

Three screenshots of test case results for a function. Each screenshot shows 'Accepted' status, runtime of 0 ms, and three cases. Case 1: Input [2, 7, 11, 15], target 9, output [0, 1], expected [0, 1]. Case 2: Input [3, 2, 4], target 6, output [1, 2], expected [1, 2]. Case 3: Input [3, 3], target 6, output [0, 1], expected [0, 1].

b.

Two screenshots of test case results for a function. Each screenshot shows 'Accepted' status, runtime of 0 ms, and two cases. Case 1: Input [2, 3, 1, 1, 4], output true, expected true. Case 2: Input [3, 2, 1, 0, 4], output false, expected false.