

#### Day – 4 : Arrays- IV

##### **Problem 1 : Two Sum : Check if a pair with given sum exists in Array**

```
def find_two_numbers_with_sum(arr, target):
```

```
    hash_set = set()
```

```
    for num in arr:
```

```
        complement = target - num
```

```
        if complement in hash_set:
```

```
            return "YES"
```

```
        hash_set.add(num)
```

```
    return "NO"
```

```
def find_indices_of_two_numbers_with_sum(arr, target):
```

```
    hash_map = {}
```

```
    for i, num in enumerate(arr):
```

```
        complement = target - num
```

```
        if complement in hash_map:
```

```
            return [hash_map[complement], i]
```

```
        hash_map[num] = i
```

```
    return [-1, -1]
```

```
arr1 = [2, 6, 5, 8, 11]
```

```
target1 = 14
```

```
print(find_two_numbers_with_sum(arr1, target1))
```

```
print(find_indices_of_two_numbers_with_sum(arr1, target1))
```

```
arr2 = [2, 6, 5, 8, 11]
```

```
target2 = 15
```

```
print(find_two_numbers_with_sum(arr2, target2))
```

```
print(find_indices_of_two_numbers_with_sum(arr2, target2))
```

```
15         return [hash_map[complement], i]
16         hash_map[num] = i
17     return [-1, -1]
18
19
20 arr1 = [3, 6, 5, 8, 11]
```

input

YES  
[1, 3]  
NO  
[-1, -1]

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acy  
B

...Program finished with exit code 0  
Press ENTER to exit console.