

Week 7 DAY -2 | Searching | CC

Total Questions : 3

Total Marks:

Question 1 :

Given a sorted Integer array , Write a Program to search the target element using Binary Search, If target element is found return the index . Otherwise return -1 .

Input : arr = [1,2,3,15,16,19,23,55,1000] , target = 15

Output: - 3

Explanation:

Just Use Binary search method

Sample :

```
def Binarysearch(arr , target):  
    #write code here
```

Questions:2

Given an sorted integer array . Write a program to find Lower Bound of target number, return the index of the element

Input: arr = [1,2 ,3,3,3,4,4,5,5,7,7,7] , target = 6

Output: 8

Explanation : -

```
def Lower_Bound(arr , target):  
    #write code here
```

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Question : 3 -

Given an sorted integer array . Write a program to find UPPER Bound of target number , return the index of the element .

Input : - [1,2,2,2,3,3,5,5,5,6,6,7,7] , target = 7

Output: - 12

Explanation : HINT - already discussed in class;

Note : -

Find Time and Space Complexity of each Question given - (1 - 3)