

Divide and conquer → Determine correct results

Hard 7 minutes

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Below is a function implemented according to the divide and conquer paradigm.

```
1 function f(array, left, right, value):
2     if left >= right:
3         return 0
4     else if left == right - 1:
5         if array[left] == value:
6             return 1
7         else:
8             return 0
9     else:
10
11         middle = (left + right) / 2
12
13         return f(array, left, middle, value)
14
15         + f(array, middle, right, value)
```

Here `/` means integer division.

What statements below correspond to the correct output of the function?

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Select one or more options from the list

- ☐ `f([1, 2, 3, 3, 3], 0, 4, 3)` is 3
- ☒ `f([1, 2, 3, 5, 5], 0, 5, 5)` is 2
- ☐ `f([1, 2, 3, 4, 5], 0, 4, 5)` is 1
- ☒ `f([1, 1, 1, 2, 2], 1, 3, 1)` is 2
- ☐ `f([2, 2, 2, 2, 2], 0, 4, 2)` is 5

✓ Correct.

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