

Divide and conquer → What does the method do?

Hard 7 minutes

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Below is a method implemented accordingly to the divide and conquer paradigm:

```
1 function f(array, left, right):
2     if left == right:
3         if array[left] % 2 == 0:
4             return 1
5         else:
6             return 0
7     else:
8         middle = (left + right) / 2
9         return f(array, left, middle)
10
11             + f(array, middle + 1, right)
```

What statements about this method are correct?

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Select one or more options from the list

- ☒ After dividing, the element with the index **middle** belongs to the left sub-array.
- ☐ It finds the maximum even number between indices **left** and **right** (including both endpoints) in the input array.
- ☐ It processes a subarray between indices **left** and **right + 1** (including both endpoints).
- ☐ It processes a subarray between indices **left** and **right - 1** (including both endpoints).
- ☒ It processes a subarray between indices **left** and **right** (including both endpoints).
- ☒ It counts even numbers between indices **left** and **right** (including both endpoints) in the input array.
- ☐ It counts numbers between indices **left** and **right** (including both endpoints) in the input array.

Correct.

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