Note that in every function call, we end up making 2 calls.

So, the function calls ends up looking like a tree :

The function calls end up making a complete binary tree.

```
Number of calls on Level 0 = 1
Number of calls on Level 1 = 2
Number of calls on Level 2 = 4
...
Number of calls on level i = 2^i.
```

```
Total number of calls = 1 + 2 + 4 + \dots 2^i + \dots 2^i + \dots 2^i + \dots 2^i
= 0(2^i + N)
```

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