

```
:(def find_single_number(nums
      """
```

Finds the single number in a non-empty array of integers where every element
.appears twice except for one element

```
:Args
```

```
.nums (List[int]): The input array of integers
```

```
:Returns
```

```
.int: The single number that appears only once in the array
```

```
      """
```

```
        result = 0
```

```
        :for num in nums
```

```
            result ^= num
```

```
        return result
```

```
print(find_single_number([1, 2, 2, 3, 3, 4, 4])) # Output: 1
```

```
print(find_single_number([2, 2, 1])) # Output: 1
```