

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

```
"""
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```
    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
```