

Problem 3688: Bitwise OR of Even Numbers in an Array

Problem Information

Difficulty: Easy

Acceptance Rate: 81.70%

Paid Only: No

Tags: Array, Bit Manipulation, Simulation

Problem Description

You are given an integer array `nums``.

Return the bitwise **OR** of all **even** numbers in the array.

If there are no even numbers in `nums``, return 0.

Example 1.

Input: `nums = [1,2,3,4,5,6]`

Output: 6

Explanation:

The even numbers are 2, 4, and 6. Their bitwise OR equals 6.

Example 2.

Input: `nums = [7,9,11]`

Output: 0

Explanation:

There are no even numbers, so the result is 0.

****Example 3:****

****Input:**** nums = [1,8,16]

****Output:**** 24

****Explanation:****

The even numbers are 8 and 16. Their bitwise OR equals 24.

****Constraints:****

***`1`** <= nums.length <= 100 ***`1`** <= nums[i] <= 100`

Code Snippets

C++:

```
class Solution {
public:
    int evenNumberBitwiseORs(vector<int>& nums) {

    }
};
```

Java:

```
class Solution {
    public int evenNumberBitwiseORs(int[] nums) {

    }
}
```

Python3:

```
class Solution:
    def evenNumberBitwiseORs(self, nums: List[int]) -> int:
```