Topics to discuss

Bit manipulation Problem - 4

- XOR operation in an Array.

1486. XOR Operation in an Array

n = 5 , start = 0

nums[5] = { 0, 2, 4, 6, 8 }
          0 1 2 3 4

XOR = 0^2^4^6^8

Easy | Topics | Companies | Hint

You are given an integer `n` and an integer `start`.

Define an array `nums` where `nums[i] = start + 2 * i` (**0-indexed**) and `n == nums.length`.

Return *the bitwise XOR of all elements of* `nums`.

Example 1:

> **Input:** n = 5, start = 0
> **Output:** 8
> **Explanation:** Array nums is equal to [0, 2, 4, 6, 8] where (0 ^ 2 ^ 4 ^ 6 ^ 8) = 8.
> Where "^" corresponds to bitwise XOR operator.

Example 2:

> **Input:** n = 4, start = 3
> **Output:** 8
> **Explanation:** Array nums is equal to [3, 5, 7, 9] where (3 ^ 5 ^ 7 ^ 9) = 8.

```
public int xorOperation(int n, int start) {
        int xor = 0;
        int[] nums = new int[n];
        for(int i=0 ; i<n ; i++){
            num[i] = start + 2 * i
            xor = xor ^ num[i];
        }
        return xor;
}
```

Follow Now

Start Practicing

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