Topics to discuss

Bit manipulation Problem - 9 Missing Number



Companies

O Topics

 $nums = [3,0,1] \rightarrow Given$ [o, n] -> range

Given an array nums containing n distinct numbers in the range [0, n], return the only number in the range that is missing from the array.

[0,1,2,3] -> array ans

Example 1:

Input: nums = [3,0,1]

Output: 2

Explanation: n = 3 since there are 3 numbers, so all numbers are in the range [0,3]. 2 is the missing number in the range since it does not appear in nums.

Example 2:

Input: nums = [0,1]

Output: 2

Explanation: n = 2 since there are 2 numbers, so all numbers are in the range [0,2]. 2 is the missing number in the range since it does not appear in nums.

Example 3:

Input: nums = [9,6,4,2,3,5,7,0,1]

Output: 8

Explanation: n = 9 since there are 9 numbers, so all numbers are in the range [0,9]. 8 is the missing number in the range since it does not appear in nums.

```
class solution {
   public int missing number (int[] nums){
         int n = nums.length;
          int result = n;
          for (int i=0; i<n; i++) {
                result \Lambda = (i^n nums[i]).
           return result;
```

nums = [3, 0, 1]

$$n = 3$$

 $yes = 3$
for (1) i = 0
 $yes = 3^{0} 0^{3}$
 $= 0$
for (2) i = 1
 $yes = 0^{10}$
 $= 1$
 $= 1$
 $= 1$
 $= 1$
 $= 1$
 $= 2$

Follow Now



Start Practicing



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