Game of XOR

Given an array **A** of size **N.** The value of an array is denoted by the bit-wise **XOR** of all elements it contains. Find the bit-wise XOR of the values of all subarrays of A.

Example 1:

```
Input:
N = 3
A = [1,2,3]
Output:
2
Explanation:
xor[1] = 1
xor[1, 2] = 3
xor[2, 3] = 1
xor[1, 2, 3] = 0
xor[2] = 2
xor[3] = 3
Result : 1 ^ 3 ^ 1 ^ 0 ^ 2 ^ 3 = 2
```

Example 2:

```
Input:
N = 2
A = [1,2]
Output:
0
Explanation:
xor[1] = 1
xor[1, 2] = 3
xor[2] = 2
Result : 1 ^ 3 ^ 2 = 0
```

Your Task:
You don't need to read input or print anything. Your task is to complete the function **gameOfXor()** which takes an integer N and array A[] as input parameters and returns the answer.

Expected Time Complexity: O(N)
Expected Auxiliary Space: O(1)

Constraints:
$1 <= N <= 10^5$
$0 <= A[i] <= 10^9$