19. Given an array of integers nums, half of the integers in nums are odd, and the other half are even.

```
PROGRAM:
def count_even_odd(nums):
  even_count = 0
  odd_count = 0
  for num in nums:
    if num % 2 == 0:
      even_count += 1
    else:
      odd_count += 1
  return even_count, odd_count
nums = [1, 2, 3, 4, 5, 6]
even_count, odd_count = count_even_odd(nums)
print("Number of even integers:", even_count)
print("Number of odd integers:", odd_count)
          Number of even integers: 3
          Number of odd integers: 3
OUTPUT:
TIME COMPLEXITY: O(n)
```