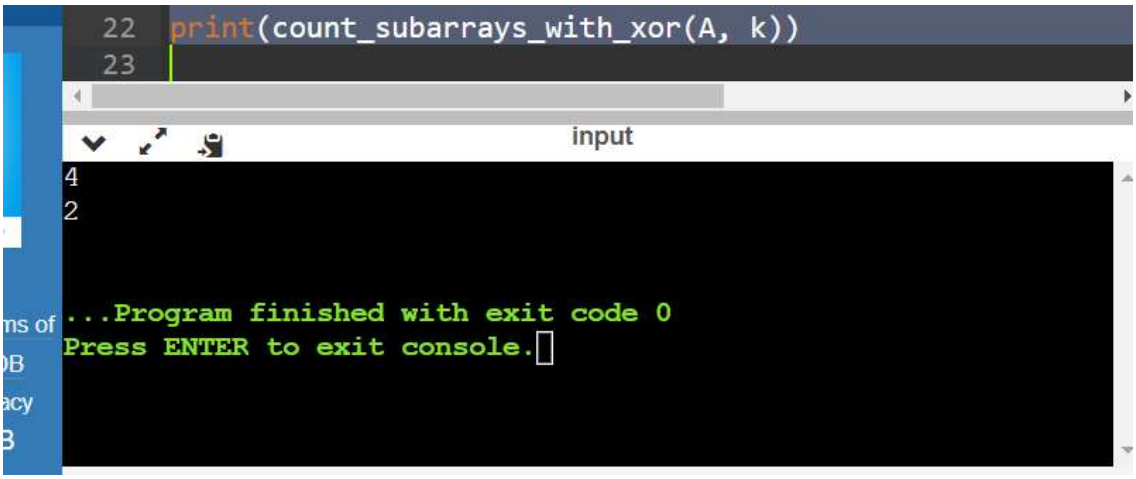
Problem 5: Given an array of integers A and an integer B. Find the total number of subarrays having bitwise XOR of all elements equal to k.

```
def count_subarrays_with_xor(A, k):
    count = 0
    prefix_xor_count = {0: 1}
    prefix_xor = 0

    for num in A:
        prefix_xor ^= num
        desired_xor = prefix_xor ^ k

        if desired_xor in prefix_xor_count:
            count += prefix_xor_count[desired_xor]

        prefix_xor_count[prefix_xor] = prefix_xor_count.get(prefix_xor, 0) + 1

    return count
A = [4, 2, 2, 6, 4]
k = 6
print(count_subarrays_with_xor(A, k))

A = [5, 6, 7, 8, 9]
k = 5
print(count_subarrays_with_xor(A, k))
```


22 print(count_subarrays_with_xor(A, k))
23
input
4
2
...Program finished with exit code 0
Press ENTER to exit console.