## Problem Statement:

### Problem

There are numbers , , …, , and you are given queries. In each query, you are given two integers and . You are required to print the sum of all the numbers whose frequency of occurrence is between and (including and ). Print a single integer for each query in a new line.

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### Input format

The first line contains denoting the size of the array.

The second line contains integers denoting the elements of the array.

The third line contains denoting the number of queries.

Next lines contain and .

### Output format

For each query, print the sum of all elements of the array whose frequency of occurrence is between and (inclusive) in a new line.

### 

### Constraints

| Sample Input | Sample Output |
| --- | --- |
| 8  4 4 6 5 3 3 3 9  4  1 4  2 7  3 7  5 6 | 37  17  9  0 |

Time Limit: 1

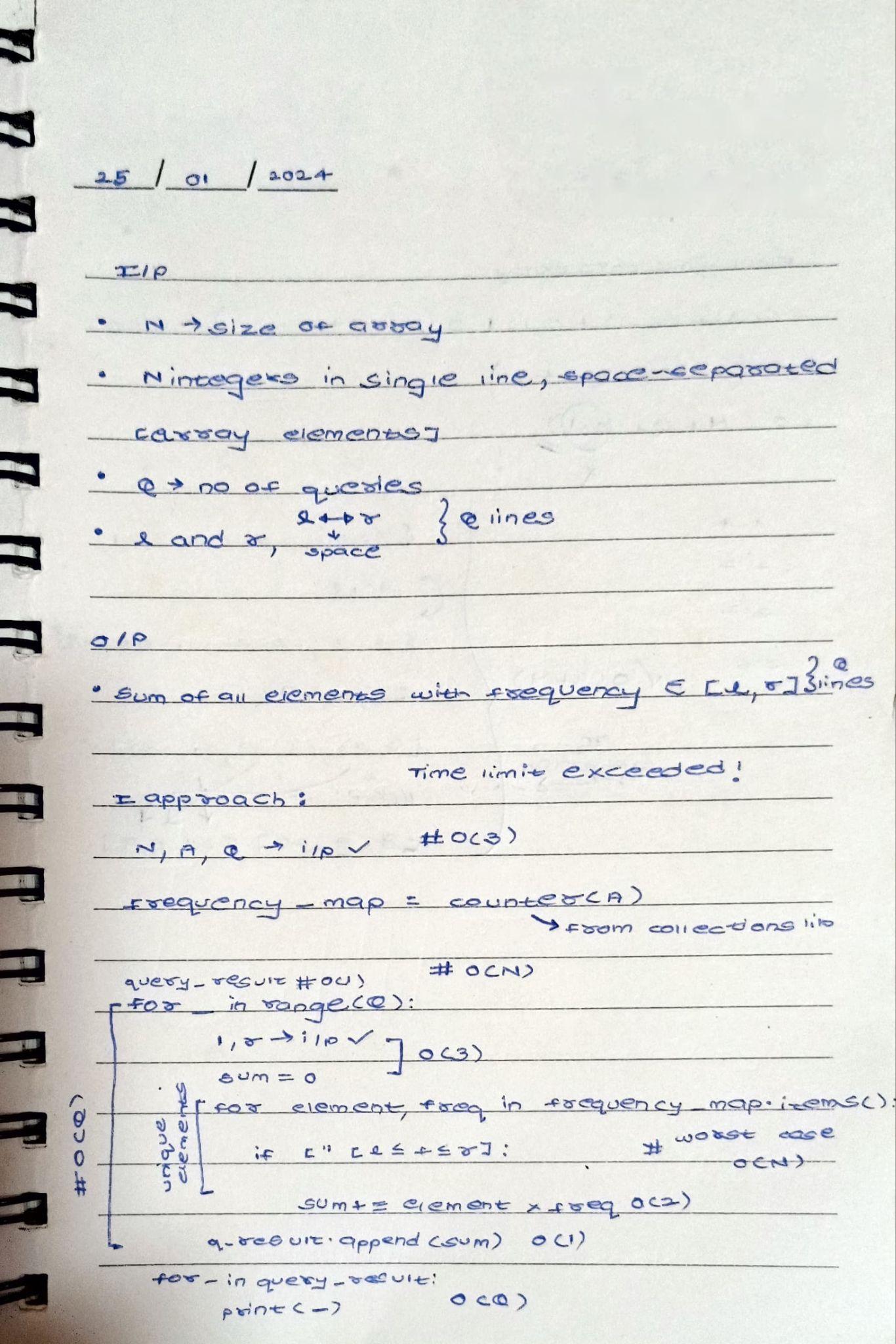
Memory Limit: 256

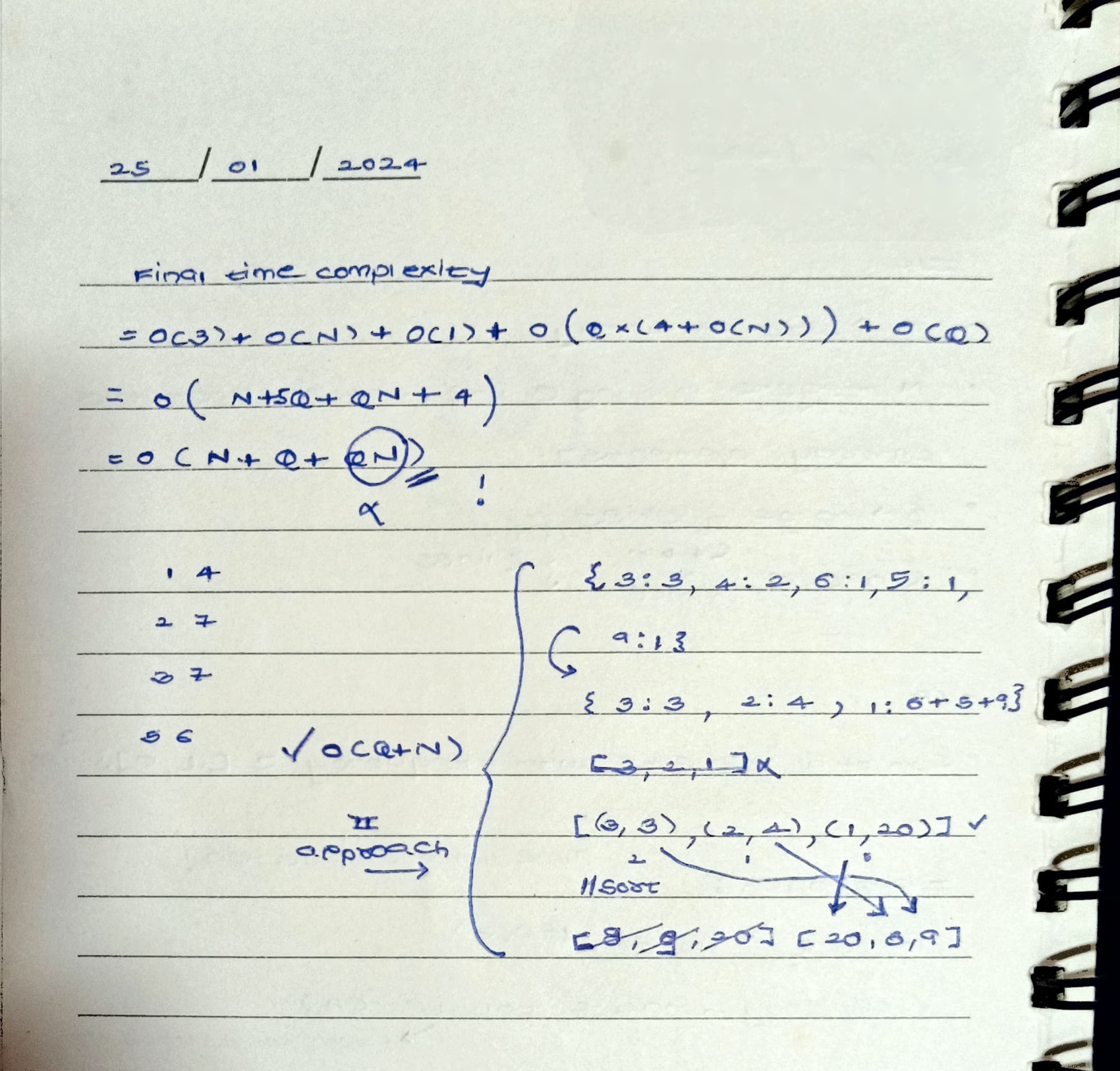
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### Explanation

In the first query we need to output the sum of all the numbers whose frequency of occurrence is between 1 and 4 (inclusive). Here all the given numbers have their frequecny between 1 and 4. 3 occurs 3 times, 4 occurs 2 times, 5, 6, 9 occurs 1 time. So the total sum would be 3+3+3+4+4+5+6+9 = 37.

## Working:





## Code:

from collections import Counter

from math import prod

N = int(input())

A = list(map(int, input().split()))

Q = int(input())

frequency\_map = Counter(A)

k = {}

result = []

for element, frequency in frequency\_map.items():

if frequency in k:

k[frequency] += element

else:

k[frequency] = element

freq\_sorted = sorted(list(k.items()))

element\_sum = list(map(prod, freq\_sorted))

for i in range(Q):

l, r = list(map(int, input().split()))

result.append(sum(element\_sum[l-1 : r]))

for i in result:

print(i)

## 

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## Result: