



# STUDENT REPORT

## DETAILS

Name

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## EXPERIMENT

Title

SET BITS

Description

You are given an integer array of N integers. Your task is to find and return an integer value representing the count of elements in the array where the count of set bits is equal to a given number X.

Note: A set bit refers to the value 1 of any bit for a number in its binary representation.

Input Specification:

input1: An integer array of N elements.

Input2: An integer value N, representing the length of the array.

Input3: An integer value X, representing the target count of set bits.

Output Specification:

Return an integer value representing the count of elements in the array where the count of set bits is equal to a given number X.

Sample Input:

5

1 2 3 4 5

1

Sample Output:

3

Explanation:

Binary representation of

1 -> 001 -> no of set bits=1

2 -> 010 -> no of setbits=1

3 -> 011 -> no of setbits=2

4 -> 100 -> no of setbits=1

5 -> 101 -> no of setbits=2

Therefore the count of numbers who have X=1 number of setbits is 3.

#### Source Code:

```
n=int(input())
a=list(map(int,input().split()))
x=int(input())
c=0
for i in range(n):
    s=bin(a[i]).count('1')
    if s==x:
        c+=1
print(c)
```

#### RESULT

5 / 5 Test Cases Passed | 100 %