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rudhran\_b\_2020\_1 ▾

[All Contests](#) > [PL-2022-Lab-10](#) > [PL-2020-C-Shubham and Xor](#)

# PL-2020-C-Shubham and Xor

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Problem

Submissions

Leaderboard

Discussions

You are given an array of  $n$  integer numbers  $a_1, a_2, \dots, a_n$ . Calculate the number of pair of indices  $(i, j)$  such that  $1 \leq i < j \leq n$  and  $a_i \text{ xor } a_j = 0$ .

## Input Format

- First line:  $n$  denoting the number of array elements
- Second line:  $n$  space separated integers  $a_1, a_2, \dots, a_n$ .

## Constraints

$$1 \leq n \leq 10^6 \quad 1 \leq a_i \leq 10^9$$

## Output Format

Output the required number of pairs.

## Sample Input 0

```
5
1 3 1 4 3
```

## Sample Output 0

```
2
```

## Explanation 0

The 2 pair of indices are (1, 3) and (2,5).

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Submissions: 532

Max Score: 100

Difficulty: Medium

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C ▾



```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int main() {
7
```

```
8  /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9  int n,i,j,a[100],count,k;
10 scanf("%d",&n);
11 count=0;
12 for (i=0;i<n;i++)
13 {
14     scanf("%d",&a[i]);
15 }
16 for (j=0;j<n;j++)
17 {
18     for(k=j+1;k<n;k++)
19     {
20         if(a[j] == a[k])
21         {
22             count++;
23         }
24     }
25 }
26 printf("%d",count);
27 return 0;
28 }
29
```

Line: 1 Col: 1

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