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Array-T15-H

Problem Submissions Leaderboard Discussions

Given an array A, the task is to find the minimum number of operations required to convert the array into B such that for every index in B (except the last) parity(b[i])!= parity(b[i + 1]) where parity(x) = x % 3.

Input Format

- The first line of the input contains an integer **N** denoting the Size of array.
- Next line contain N space separated integers, the array A

Constraints

1 ≤ N ≤ 50 **-10000≤a[i]≤10000

Output Format

Print single integer which describes Minimum operations required to modify the array such that parity of adjacent elements is different

Sample Input 0

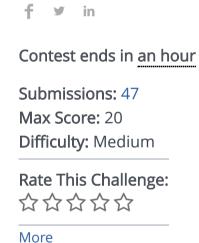
```
4
2 1 3 0
```

Sample Output 0

1

Explanation 0

1 can be added to 0 in a single operation and the array becomes {2, 1, 3, 1}.



```
6 using namespace std;
   int parity(int a)
8 ▼{
        return a % 3;
 9
10 }
11
12
   int solve(int array[], int size)
13
14 ▼ {
15
       int operations = 0;
       for (int i = 0; i < size - 1; i++)
16
17 ▼
            if (parity(array[i]) == parity(array[i + 1]))
18 ▼
19 ▼
20
                operations++;
21
                if (i + 2 < size)
22 🔻
23 🔻
                    int pari1 = parity(array[i]);
24 ▼
                    int pari2 = parity(array[i + 2]);
25
26
27
                    if (pari1 == pari2)
28 ▼
29 ▼
                        if (pari1 == 0) array[i + 1] = 1;
                        else if (pari1 == 1) array[i + 1] = 0;
30 ▼
                        else array[i + 1] = 1;
31 ▼
32
                    }
33
                    else
34 ▼
35 ▼
                        if ((pari1 == 0 \&\& pari2 == 1) || (pari1 == 1 \&\& pari2 == 0)) array[i + 1] = 2;
                        if ((pari1 == 1 && pari2 == 2) || (pari1 == 2 && pari2 == 1)) array[i + 1] = 0;
36 ▼
                        if ((pari1 == 2 && pari2 == 0) || (pari1 == 0 && pari2 == 2)) array[i + 1] = 1;
37 ▼
38
39
40
            }
```

```
}
41
42
         return operations;
43
44
45
46 vint main() {
47
48
             int n;
49
             cin>>n;
             int a[n];
50 ▼
             for(int i=0;i<n;i++)</pre>
51
                       cin>>a[i];
52 ▼
             cout<<solve(a,n)<<"\n";</pre>
53
54
55
         return 0;
56
57
                                                                                                           Line: 22 Col: 13
```

Run Code

Submit Code

Testcase 0 ✓

Congratulations, you passed the sample test case.

Click the **Submit Code** button to run your code against all the test cases.

Input (stdin)

4 2 1 3 0		
Your Output (stdout)		
1		
Expected Output		
1		

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