Array-T15-H

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}.

Contest ends in an hour

Submissions: 47
Max Score: 20
Difficulty: Medium

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Current Buffer (saved locally, editable) C++

```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
```

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

```
    }

    return operations;
}

int main() {

        int n;
        cin>>n;
        int a[n];
        for(int i=0;i<n;i++)
                cin>>a[i];
        cout<<solve(a,n)<<"\n";

    return 0;
}

```

Line: 22 Col: 13

Upload Code as File Test against custom input 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
```