## 397. Integer Replacement

QuestionEditorial Solution

**My Submissions** 

```
Total Accepted: 7525
Total Submissions: 26967
Difficulty: Medium
Contributors: Admin
```

Given a positive integer n and you can do operations as follow:

```
1. If n is even, replace n with n/2.
2. If n is odd, you can replace n with either n + 1 or n - 1.
Input:
Output:
3
Explanation:
8 \rightarrow 4 \rightarrow 2 \rightarrow 1
class Solution {
public:
     int replace(long n,int step){
          if(n==1) return step;
          if(n%2==0) return replace(n/2,++step);
          else return min(replace(n+1,step+1),replace(n-1,step+1));
     }
     int integerReplacement(int n) {
          return replace(n,0);
};
```