Hailstone Numbers

Time limit: 2.0s **Memory limit:** 64M

Pick a positive integer n. If it is odd, multiply it by three and then add one. If n is even, divide it by two. The positive integer obtained is the new n, and this is repeated until the number becomes 1. Given the value of n, with $1 \leq n < 2^{31}$, determine the number of operations before n becomes 1.

Sample Input

```
3
```

Sample Output

```
7
```

Explanation

n will become 10, 5, 16, 8, 4, 2, then 1, which is a total of 7 operations.