Minimum Operations

Submissions: 19596 (/problem_submissions.php?pid=1762) Accuracy: 53.49% Difficulty: Easy (https://practice.geeksforgeeks.org/Easy/0/0/) Marks: 2

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Problems

You are given a number **N**. You have to find the number of operations required to reach **N** from **0**. You have 2 operations available:

- Double the number
- Add one to the number

Input:
The first line of input contains an integer T denoting the number of test cases. Then T test cases follow. Each test case contains an integer **N**.

Output:
For each test case, in a new line, print the **minimum** number of operations required to reach **N from 0**.

Constraints:
1<=T<=100
$1<=N<=10^4$

Example:
Input:
2
8
7
Input:
4
5

Explanation:
Testcase1:
Input : N = 8
Output : 4
0 + 1 = 1, 1 + 1 = 2, 2 * 2 = 4, 4 * 2 = 8
Testcase2:
Input : N = 7
Output : 5
0 + 1 = 1, 1 + 1 = 2, 1 + 2 = 3, 3 * 2 = 6, 6 + 1 = 7

** For More Input/Output Examples Use 'Expected Output' option **

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