The **complement** of an integer is the integer you get when you flip all the 0's to 1's and all the 1's to 0's in its binary representation.

* For example, The integer 5 is "101" in binary and its **complement** is "010" which is the integer 2.

Given an integer n, return *its complement*.

**Example 1:**

Input: n = 5  
Output: 2  
Explanation: 5 is "101" in binary, with complement "010" in binary, which is 2 in base-10.

**Example 2:**

Input: n = 7  
Output: 0  
Explanation: 7 is "111" in binary, with complement "000" in binary, which is 0 in base-10.

**Example 3:**

Input: n = 10  
Output: 5  
Explanation: 10 is "1010" in binary, with complement "0101" in binary, which is 5 in base-10.

**Constraints:**

* 0 <= n < 109

**Note:** This question is the same as 476: <https://leetcode.com/problems/number-complement/>