**[Akku and Binary Numbers](https://practice.geeksforgeeks.org/problems/akku-and-binary-numbers0902/1)**

Akku likes binary numbers and she likes playing with these numbers. Her teacher once gave her a question.For given value of  L and R, Akku have to find the count of number X, which have only three-set bits in it's binary representation such that "L ≤ X ≤ R".Akku is genius, she solved the problem easily. Can you do it ??

**Example 1:**

**Input**:

L = 11 and R = 19

**Output:** 4

**Explanation**:

There are 4 such numbers with 3 set bits in

range 11 to 19.

11 -> 1011

13 -> 1101

14 -> 1110

19 -> 10011

**Example 2:**

**Input:**

L = 25 and R = 29

**Output: 3**

**Explanation**:

There are 3 such numbers with 3 set bits in

range 25 to 29.

25 -> 11001

26 -> 11010

28 -> 11100

**Your Task:**  
You don't need to read input or print anything. Your task is to complete the function **solve()** which takes the integer **L** and **R** as input parameters and returns the count of number X, which have only three-set bits in its binary representation such that "L ≤ X ≤ R".  
  
**Expected Time Complexity:** O(633) + O(log(R-L))  
**Expected Auxiliary Space:** O(633)

**Constraints:**  
1 ≤ L ≤ R ≤ 1018