**[Count even length](https://practice.geeksforgeeks.org/problems/count-even-length1907/1)**

Given a number n, find count of all binary sequences of length 2n such that sum of first n bits is same as sum of last n bits.  
The anwer can be very large. So, you have to return answer modulo 109+7.

**Example:**

**Input:** n = 2

**Output:** 6

**Explanation:** There are 6 sequences of length

2\*n, the sequences are 0101, 0110, 1010, 1001,

0000 and 1111.

**Example:**

**Input:** n = 1

**Output:** 2

**Explanation:** There are 2 sequence of length

2\*n, the sequence are 00 and 11.

**Your Task:**  
You don't need to read or print anyhting. Your task is to complete the function **compute\_value()** which takes n as input parameter and returns count of all binary sequence of length 2\*n such that sum of first n bits is same as sum of last n bits modulo 109 + 7.

**Expected Time Complexity:**O(n \* log(n))  
**Expected Space Complexity:**O(1)

**Constraints:**  
1 <= n <= 105