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GOCC15: Google SWE Online Coding Challenge Internship 2021

- Difficulty Level :\n[Medium](#)
- Last Updated :\n02 Sep, 2020

I applied for the job, at Google\xe2\x80\x99s Career Portal. There was a resume shortlisting round first. I received the link for the test 4 days prior to the test date. The test was conducted on the HackerEarth platform, there were 2 coding questions to be completed within 60min.

1. **The maximum XOR value:** Given an array of **N** Integers. You are given **q** queries. Each query has 2 integers **x** and **m**. For each query, you are required to determine the array value that provides the maximum bitwise XOR value with x where the array value is not more than m.

   If there is no such value that satisfies then condition, then print **-1.**

   - **Input Format:** A first line is a number of test cases T. Each test case contain an integer N denoting the number of elements in the array. The second line of each test case contains array elements. The third line denoted the number of queries q. Next q lines contain two integers x and m.

   - **Example:**

     - **Input:**

       1\r\n7\r\n3 7 19 18 7 12 17\r\n7\r\n3 8\r\n21 20\r\n24 17\r\n1 7\r\n23 17\r\n12 9\r\n

     - **Output:**

       7\r\n12\r\n7\r\n7\r\n12\r\n3\r\n-1\r\n

2. **Divisibility Count:** Find the number of **N** digit integers divisible by both **X** and **Y**, print answer modulo 10^9+7

   - **Input Format:** The first line contains T denoting the number of test cases. The first line of each test case contains 3 integers N, X, Y.

   - **Output Format:** Print an integer denoting the output.

   - **Example:**

     - **Input:**

       2\r\n2 5 7\r\n1 2 3\r\n

     - **Output:**

       2\r\n1\r\n

I could only clear a few test cases of both the questions. Hope this information helps.

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