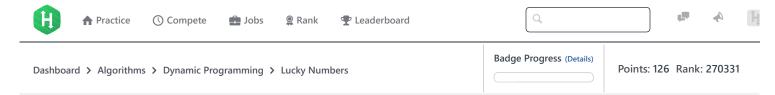
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# Lucky Numbers





A number is called lucky if the sum of its digits, as well as the sum of the squares of its digits is a prime number. How many numbers between A and B(both inclusive) are lucky?

Lucky numbers are not to be confused with Lucky Numbers

#### **Input Format**

The first line contains the number of test cases T. Each of the next T lines contains two integers, A and B.

#### **Constraints**

- $1 \le T \le 10^4$
- $1 \le A \le B \le 10^{18}$

#### **Output Format**

Output T lines. Each line contains the required answer for the corresponding test case.

## **Sample Input**

2 1 20 120 130

# **Sample Output**

1

### **Explanation**

For the first case, the lucky numbers are 11, 12, 14, 16. For the second case, the only lucky number is 120.

f in Submissions:<u>3881</u> Max Score:100 Difficulty: Expert Rate This Challenge: ☆☆☆☆☆

More

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```
Java 7
 1 ▼ import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5 import java.util.regex.*;
 6
 7 ▼ public class Solution {
 8 ▼
         public static void main(String args[] ) throws Exception {
             \slash Enter your code here. Read input from STDIN. Print output to STDOUT \slash
 9 ₹
10
11
    }
12
                                                                                                                     Line: 1 Col: 1
                                                                                                         Run Code
                                                                                                                      Submit Code
1 Upload Code as File
                      Test against custom input
```

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