Mock DWITE '09 P1 - Super Special Awesome Numbers =D

Time limit: 25.0s   **Memory limit:** 256M

2009 Mock DWITE by A.J.: Problem 1

A 'super' number is a number whose digital sum (*i.e.*, the sum of its digits) is even!
A 'special' number is a number with strictly increasing digits!
An 'awesome' number is a number that is not divisible by any perfect square other than 1!

Given a range, determine how many Super Special Awesome numbers lie within it.

Input Specification

The input will contain five lines. Each line will contain two integers L and U ($1 \leq L \leq U \leq 1\,000\,000$).

Output Specification

For each line given in input, in the order given, output one line containing a single integer: the number of Super Special Awesome numbers between L and U (inclusive).

Sample Input

```
2 10
30 300
6666 66666
12345 67890
100000 1000000
```

Sample Output

```
2
23
51
50
32
```