# Cool Numbers

Cool numbers are those, whose digits can be partitioned into two sets such that the sum of the digits in either sets are equal.
Example: 23450 is cool because 3+4+0 = 2+5; So is 91125;
The numbers 567, 34523 are not cool, since there is no such digit partition.

Write a program that prints the number of cool numbers in the inclusive range [A,B].

**Input Format:**
The input file consists of multiple testcases.
Each case contains one line containing two 32-bit unsigned integers A and B. ($1 <= A <= B <= 4*10^9$).
Input terminates with a line containing two zeros and must not be processed.

**Output Format:**
For each testcase print a single line containing one integer saying the number of cool numbers between A and B, inclusive.

**Sample Input:**

```
1 11
12 20
1 20
3 100
6354 234363
123456789 234567891
0 0
```

**Sample Output:**

```
1
0
1
9
82340
54801678
```

**Test Data:**
About 50 testcases.