Let length $(A)$ denote the count of digits of a number $A$ in its decimal representation.
John is looking for new methods of determining which numbers are strange all day long.
All non-negative numbers of length 1 are strange. Further, a number $X$ with length $(X) \geq 1$ can also be considered strange if and only if

- $X$ is evenly divisible by length $(X)$
- the number $X /$ length $(X)$ is recursively strange

Your task is to calculate how many strange numbers belong to an interval $[L, R]$.

## Input Format

The first line contains single integer $T$ - the number of test cases. Next $T$ lines contain two integers separated by single space $L$ and $R$.

## Output Format

In $T$ lines, print $T$ integers - count of strange numbers belonging to the interval $[L, R]$.

## Constraints

$1 \leq T \leq 200$
$0 \leq L<R \leq 10^{18}$

## Sample Input

```
5
725
4 5 5 0
1 100
99103
0 1000000
```


## Sample Output

```
10
1
26
0
96
```


## Explanation

First testcase: There are 10 strange numbers that belong to the interval [ 7,25 ]. They are $7,8,9,10,12,14,16,18,20,24$.
Second testcase: Only 48 satisfies the given constraints.

