D. Beautiful numbers

time limit per test: 4 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

Volodya is an odd boy and his taste is strange as well. It seems to him that a positive integer number is *beautiful* if and only if it is divisible by each of its nonzero digits. We will not argue with this and just count the quantity of beautiful numbers in given ranges.

Input

The first line of the input contains the number of cases t ($1 \le t \le 10$). Each of the next t lines contains two natural numbers l_i and r_i ($1 \le l_i \le r_i \le 9 \cdot 10^{18}$).

Please, do not use `%lld` specificator to read or write 64-bit integers in C++. It is preffered to use `cin` (also you may use `%I64d`).

Output

Output should contain t numbers — answers to the queries, one number per line — quantities of beautiful numbers in given intervals (from l_i to r_i, inclusively).

Examples

input
1 1 9
output
9

input
1 12 15
output
2