## Strictly not a Prime

Tim defines an integer as "Strictly not a Prime", if no subsequence (considering the integer as a string of digits) of the integer is a prime. He needs your help in finding how many such integers are present between two given integers $A$ and $B$ (including $A$ and $B$ ).

## Input

First line contains an integer $\mathrm{T}(1<=\mathrm{T}<=100000)$ which denotes the total number test cases. Each test case consists of two integers $A$ and $B(1<=A, B<=100000)$ on a single line.

## Output

For each test case, print the total count of integers which are "Strictly not a prime" between $A$ and $B$ (including A and $B$ ) as per Tim.

## Example

Input:
2
36
710
Output:
2
3

