## Summing up Last digits

Let $F(x)$ is a function which returns the last digit of the first prime number with ' $x$ ' digit. The first few values of $F(x)$ is:
$F(1)=2$
$F(2)=1$
$F(3)=1$
$F(4)=9$
$F(5)=7$

The value of $\mathrm{F}(\mathrm{x})$ for $1<=\mathrm{x}<=25$ is $\{2,1,1,9,7,3,3,9,7,7,9,3,9,7,1,7,1,3,3,1,9,7,9,7,7\}$.

In this task you have to compute the sum up $F(x)$ 's between two given a and b (including)

Constraints:
$1<=\mathrm{T}<=1000$
$1<=\mathrm{a}<=\mathrm{b}<=1000$

## Input

The first line of the input is an integer $T$ (say), then $T$ test cases follows.

## Output

Output the answer one in each line.

## Example

Input:
3
647997
736823
632928

Output:

1741
410
1487

## Constraints:

$1<=\mathrm{T}$ <= 1000
$1<=\mathrm{a}<=\mathrm{b}$ <= 1000

## Score

Score is the length of your code.

