This problem is a programming version of Problem 134 from projecteuler.net
Consider the consecutive primes $p_{1}=19$ and $p_{2}=23$. It can be verified that 1219 is the smallest number such that the last digits are formed by $p_{1}$ whilst also being divisible by $p_{2}$.

In fact, with the exception of $p_{1}=3$ and $p_{2}=5$, for every pair of consecutive primes, $p_{2}>p_{1}$, there exist values of $n$ for which the last digits are formed by $p_{1}$ and $n$ is divisible by $p_{2}$. Let $S$ be the smallest of these values of $n$.

Given $L$ and $R$, find $\sum S$ for every pair of consecutive primes with $L \leq p_{1} \leq R$.

## Input Format

The first line of input contains $T$, the number of test cases.
Each test case consists of one line containing two integers, $L$ and $R$.

## Constraints

$1 \leq T \leq 10$
$5 \leq L \leq R \leq 10^{9}$
$|R-L| \leq 10^{6}$
But in test cases worth $50 \%$ of the total points, $R \leq 10^{6}$.

## Output Format

For each test case, output a single line containing a single integer, the answer for that test case.

## Sample Input

```
    1
    520
```


## Sample Output

```
4272
```


## Explanation

The following are the relevant values in the range $5 \leq p_{1} \leq 20$ :

- $p_{1}=5, p_{2}=7, S=35$
- $p_{1}=7, p_{2}=11, S=77$
- $p_{1}=11, p_{2}=13, S=611$
- $p_{1}=13, p_{2}=17, S=1513$
- $p_{1}=17, p_{2}=19, S=817$
- $p_{1}=19, p_{2}=23, S=1219$

Thus, $\sum S=35+77+611+1513+817+1219=4272$

