## Revenge of the squares

I think it's time to not only solve problems but also create some.
So here is my first attempt:
Given a number calculate the product N of their digits bigger than zero. The output is the number $R$ of different presentations of $N$ in the form $A^{*} A+B^{*} B$ with $A$ and $B$ being positive integers including zero. $1^{*} 1+2^{*} 2$ and $2^{*} 2+1^{*} 1$ are not different presentations. So for input 5 the output is 1 .

See also this similar task.

## Input

One hundred tests with one positive integer $<10^{\wedge} 20$.

## Output

Print the illustrated above number R for each test.

## Example

## Input:

5
7
78185824586267361855

## Output:

1
0
3

