Exact decimal fraction

Given two integers x and y (1<=x,y<=1000) print their quotient as exact decimal fraction. A possible period should be marked by underscores in the above line.

Input

In the first line number N (<=100) of tests, then N lines with the numbers x and y separated by a slash.

Output

The decimal fraction in one or two (in case of a period) lines for each test.

Example

Input:
2
1/2
1/3

Output:
0.5

  _
0.3

Thanks are given to [numerix](#) for his suggestion.