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Web Programming and Python (AI104)

<u>Assignment – 2</u>

1. Write a program that asks the user to enter a word and then capitalizes every other letter of that word. So, if the user enters rhinoceros, the program should print rHiNoCeRoS.

2. Write a program that repeatedly asks the user to enter product names and prices. Store all of these in a dictionary whose keys are the product names and whose values are the prices. When the user is done entering products and prices, allow them to repeatedly enter a product name and print the corresponding price or a message if the product is not in the dictionary.

3. Find Digits

You are given a number *N,* you need to print the number of positions where digits exactly divides *N*.

Input format
The first line contains T (number of test cases followed by *T* lines each containing N).

Constraints
1 <= T <= 15
0 <= N <= 10^{10}

Output Format
For each test case print the number of positions in N where digits in that number exactly divides the number N in separate line.

Input
2
12
13

Output
2
1

Explanation

Test case 1:
2 digits in the number 12 divides the number exactly.

Test case 2:
Only 1 digit in the number 13 divides the number exactly.