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Lucky Four

Problem Code: LUCKFOUR

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Kostya likes the number **4** much. Of course! This number has such a lot of properties, like:

- Four is the smallest composite number;
- It is also the smallest Smith number;
- The smallest non-cyclic group has four elements;
- Four is the maximal degree of the equation that can be solved in radicals;
- There is four-color theorem that states that any map can be colored in no more than four colors in such a way that no two adjacent regions are colored in the same color;
- Lagrange's four-square theorem states that every positive integer can be written as the sum of at most four square numbers;
- Four is the maximum number of dimensions of a real division algebra;
- In bases 6 and 12, 4 is a 1-automorphic number;
- And there are a lot more cool stuff about this number!

Impressed by the power of this number, Kostya has begun to look for occurrences of four anywhere. He has a list of **T** integers, for each of them he wants to calculate the number of occurrences of the digit **4** in the decimal representation. He is too busy now, so please help him.

Input

The first line of input consists of a single integer **T**, denoting the number of integers in Kostya's list.

Then, there are **T** lines, each of them contain a single integer from the list.

Output

Output **T** lines. Each of these lines should contain the number of occurrences of the digit **4** in the respective integer from Kostya's list.

Constraints

- $1 \leq T \leq 10^5$

- (Subtask 1): $0 \leq$ Numbers from the list ≤ 9 - 33 points.

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- (Subtask 2): $0 \leq$ Numbers from the list $\leq 10^9$ - 67 points.

Example

Input :

5
447474
228
6664
40
81

Output :

4
0
1
1
0

Author: [sergey_adm \(/users/sergey_adm\)](/users/sergey_adm/)

Tester: 4★ [furko \(/users/furko\)](/users/furko/)

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Problem level: Cakewalk

Date Added: 23-01-2015

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: CPP14, C, JAVA, PYTH 3.6, CPP17, PYTH, PYP3,
CS2, ADA, PYPY, TEXT, PAS fpc, NODEJS, RUBY,
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Okay

CodeChef was created as a platform to help programmers make it big in the world of **algorithms**, **computer programming**, and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and two smaller programming challenges at the middle and end of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

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Try your hand at one of our many practice problems and submit your solution in the language of your choice. Our **programming contest** judge accepts solutions in over 55+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

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Here is where you can show off your **computer programming skills**. Take part in our 10 days long monthly coding contest and the shorter format Cook-off and Lunchtime **coding contests**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

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