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Sachin & his Girlfriend ✓

Problem code: SACHGF

ALL SUBMISSIONS

MY SUBMISSIONS

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SUCCESSFUL SUBMISSIONS

Sachin came to third year of engineering. He researched something on numbers and soon started to love numbers less than **1007**, more than his girlfriend. Every number he would encounter, he would divide the number with **1007** and store its remainder, if he has not come across that remainder previously. Soon his girlfriend found this out, so he asks you to help him.

Input

The first line contains an integer **T** ($1 \leq T \leq 1000$) denoting the number of test cases. The next **T** lines contains a single integer **N** ($1 \leq N \leq 10^9$) representing the number that Sachin encounters.

Output

For every **N** print the remainder if it is not encountered previously else skip that number.

Sample Cases

Input

```
3
2
1009
3
```

Output

```
2
3
```

Author: bigo_admin

Tags: bigo_admin

Date Added: 12-04-2016

Time Limit: 1 sec

Source Limit: 50000 Bytes

Languages: C, CPP 4.3.2, CPP 4.9.2, CPP14, JAVA

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Intelligent People. Unlimited Ideas.

The time now is: 04:30:46 PM
Your IP : 14.139.196.3

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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 another smaller programming challenge in the middle 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 a language of your choice. Our **programming contest** judge accepts solutions in over 35+

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