

Power(19,infinity)=??

The NSTU Science Club is a non-profit organization committed to fostering scientific curiosity, innovation, and research skills among the students of Noakhali Science and Technology University. By providing a dynamic platform for exploring diverse scientific fields, collaborating on innovative projects, and engaging in hands-on learning, the club plays a vital role in nurturing critical thinking, problem-solving, and creativity.

As part of its mission, the NSTU Science Club organizes workshops, seminars, competitions, and events that inspire students to tackle real-world challenges. In collaboration with the CSTE Club, the Science Club is hosting a Programming Contest to encourage and motivate NSTU 19 batch freshers, who are new to the field of competitive programming.

This particular problem is designed for the freshers to help them grasp the basics of modular arithmetic. The problem statement is:

You are given a number n . Your task is to compute X , where: $X = 19^n \% 10$.

Input Format

- 1. The input starts with T , the number of Test Cases.
- 2. Next, T lines contain integer n .

Constraints

- 1. $1 \leq T \leq 10^5$
- 2. $1 \leq n \leq 10^9$
- 3. Time limit- 1 sec

Output Format

For each test case, output X .

Sample Input 0

```
2
1
4
```

Sample Output 0

```
9
1
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