Problem A: **Compression**

**Let Compression of an integer be the sum of all digits of and yields another positive integer. It is obvious that if we compress a number for certain finite steps, we will reach a one digit number. You are given a positive integer and you are asked to output a one digit number which is created by compression of.**

**For instance, if you are given a number 86, after one step of compression, we will reach number , and after another step of compression, we reach . So, you should write to the output.**

## **Input**

**The number of test cases comes in the first line. For each test case you are given a positive integer .**

## **Output**

**For each test case, write one digit number that you will reach after some steps of compression.**

|  |  |
| --- | --- |
| **Sample Input** | **Sample Output** |
| **3**  **43**  **111**  **57871** | **7**  **3**  **1** |