

One Eight_Nine

Description:

Suppose you have a number of three digits, which is **P**. Add those three digits and store in **X**. Then subtract **X** from the actual number **P**. After Subtraction, now the resulting number is **N**. In this problem, you are given sum of last two digits of **N**. Your task is to find the first digit of **N**.

For example, suppose **P** = 123, **X** = 1+2+3 = 6, **N** = **P** - **X** = 123 - 6 = 117 . Sum of last two digits is 8 . So, in this case, first digit is 1

Input

Input starts with an integer **T** ($1 \leq T \leq 1000000$), denoting the number of test cases. Each case contains sum of last two digits of **N** ($0 \leq N \leq 18$).

Output

For each test case, output one line containing "Case **x**: **M**", where **x** is the test case number, **M** is the first digit of **N**.

Example

Input:

2

8

13

Output:

Case 1: 1

Case 2: 5