ACSL

**American Computer Science League**

#### All-Star #1

**2010 - 2011**

**Disks**

**PROBLEM:**  ACSL has disks that have the numbers 0 through 9 printed on them. There are 100 of each type. In this program you will be asked to form a series of disks using the following rules:

1. You will be given 2 disks to start.
2. To get the next disk always find the sum of the previous two disks.
3. If the sum is greater than 9, use a disk with just the ones digit of the sum.
4. Continue the process until the first two disks, in the order given, appear again.

**INPUT**: There will be 5 lines of input. Each line will contain 2 disk numbers as described above.

**OUTPUT**: For each input line, print the number of disks in the series when the ending condition is reached.

SAMPLE INPUT SAMPLE OUTPUT

1. 2, 6 1. 6
2. 1, 3 2. 14

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TEST DATA

TEST INPUT TEST OUTPUT

1. 1, 2 1. 62

2. 2, 8 2. 22

3. 3, 9 3. 14

4. 8, 4 4. 6

5. 0, 0 5. 3