American Computer Science League

2020-2021 ● Contest 1: Numeral Triangles ● Junior Division

PROBLEM: Construct a Numeral Triangle according to the following rules. You will be given three positive integers: *s*, a starting number; *d,* a delta (the amount by which to increase each number in the triangle); and *r* the number of rows.

1. The first row contains the number *s*.
2. Each of the next rows has one more number than the previous row.
3. Each number in the triangle is *d* more than the previous number in the triangle.
4. Before putting a number in the triangle, it is transformed to a single digit. That is, if the number is more than one digit, replace it by the sum of the digits, repeating until the sum is one digit (for example, 1938 ⇒ 21 ⇒ 3).

Here are two examples of Numeral Triangles:

start=2, delta=3, rows=5	**start=221, delta=2, rows=4**
2 5 8 2 5 8 2 5 8 2 5 8 2 5 8	5 7 9 2 4 6 8 1 3 5

INPUT: There are 5 lines of data. Each line has 3 positive integers, *s*, *d*, and *r*. The numbers are separated by spaces and each is less than 100,000.

OUTPUT: For each line of data, print the sum of all numbers on the *r*th line of the Numeral Triangle.

SAMPLE INPUT:

```
2 3 5
221 2 4
184 231 35
71 5 27
1 24 100
```

SAMPLE OUTPUT:

```
1. 28
2. 17
3. 140
4. 135
5. 397
```

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PROBLEM（问题）：
根据以下规则构造一个数字三角形。 已知三个正整数：起始数 *s*；增量 *d*（三角形中每个数字的增加量）；数字三角形行数 *r*。

1. 第一行由数字 *s* 组成。
2. 接下来的每一行都比上一行多一个数。
3. 三角形中的每个数字都比前一个数字大 *d* 。
4. 把数填充进三角形之前，会先将它转换为一位数。也就是说，如果要填充的数多于一位，会将这个数替换为它的各位数字之和，不断重复此过程直到各位数字之和为一位数（例如 1938 ⇒ 21 ⇒ 3）。

下面是两个数字三角形示例：

起始数=2, 增量=3, 行数=5	**起始数=221, 增量=2, 行数=4**
2 5 8 2 5 8 2 5 8 2 5 8 2 5 8	5 7 9 2 4 6 8 1 3 5

INPUT（输入）： 有 5 行数据，每行有 3 个正整数 *s* , *d* 和 *r* 。数与数之间用空格分隔，且均小于 100,000。

OUTPUT（输出）：对于每一行数据，打印输出数字三角形第 *r* 行上所有数的总和。

SAMPLE INPUT（示例输入）：	**SAMPLE OUTPUT（示例输出）：**
2 3 5	1. 28
221 2 4	2. 17
184 231 35	3. 140
71 5 27	4. 135
1 24 100	5. 397