Chapter 3.6: "Multiple-Digit Progressive Patterns"

In this sub-chapter, we will again be working with the progressive patterns which are contained within the repetition pattern which is contained within the infinitely repeating decimal number quotient which is yielded by the fourth iteration of the function "1/3", with these progressive patterns having been examined previously in Chapter 3.3. Though in this sub-chapter, we will be working with multiple-digit progressive patterns, where as all of the progressive patterns which were seen in Chapter 3.3 were single-digit progressive patterns.

In the first section of this sub-chapter, we will examine the various two-digit progressive patterns which are contained within this repetition pattern, such as the two-digit one-step progressive pattern, the two-digit two-step progressive pattern, the two-digit three-step progressive pattern, etc. .Though before we begin, it should be noted that throughout this sub-chapter, the multiple-digit progressive patterns will all be highlighted within a series of instances of the same repetition pattern, with each of the instances of the repetition pattern laid one beneath the other, and with each step in the progressive pattern being highlighted within the next repetition pattern (that which is oriented beneath the previous step). Furthermore, each of the steps which does not involve a shock will be highlighted in blue, while the instances of shocks will all be highlighted in the standard progressive pattern color code, which means that the numbers which require a positive shock will all be highlighted in green, and the numbers which require a negative shock will all be highlighted in red. Though it should also be noted that none of the progressive patterns which will be seen in this sub-chapter involve any instances of negative shocks, which means that the only progressive patterns which will be seen in this sub-chapter which maintain shock parity are those which do not involve any shocks. (While a few of the multiple-digit progressive patterns which will be seen in this sub-chapter will involve instances of purple highlighting, as will be explained along with the second of these examples.)

With all of that said, we will start by examining the two-digit one-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679
012345679
012345679
012345679
012345679
012345679
012345679
012345679
012345679(01)

Above, we see the two-digit (one shared) one-step "+11" progressive pattern which is contained within this repetition pattern. This progressive pattern involves one instance of a positive shock, which in this case occurs in relation to the 9 which is contained within this repetition pattern, in that the function

"67+11" should yield a sum of 78. (It should be noted that when one of the individual addition functions which is involved in the progressive pattern yields a three-digit sum, the first digit of that three-digit sum will be disregarded. For example, the last of the addition functions which are involved in the first iteration of this progressive pattern involves the function "90+11", which in this case yields the sum of 01, as opposed to the proper sum of 101.)

Before we move on to the next progressive pattern, it should be noted that in relation to multiple-digit progressive patterns which involve lesser quantities of steps, such as the two-digit (one shared) one-step "+11" progressive pattern which is seen above, the progressive pattern will either share a digit between each of its sets of digits, such as the 1 which is involved in the first of the steps which are seen above, or each of its sets of digits will involve neighboring pairs of numbers, as will be the case in relation to the next example. All of these shared digit and neighboring number characteristics will be indicated within the descriptions of the progressive patterns, and it is due to these characteristics that we will be displaying these multiple-digit progressive patterns in this alternate (vertical) manner.

Next, we will examine the two-digit two-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679
012345679
012345679
01234567990
012345679012
01234567901234
0123456790123456
012345679012345679
01234567901234567901

Above, we see the two-digit (neighboring number) two-step "+22" progressive pattern which is contained within this repetition pattern, with this being our first example of a multiple-digit progressive pattern which involves neighboring sets of digits. This progressive pattern involves one instance of a positive shock, which in this case occurs in relation to the 9 which is contained within this repetition pattern. While this progressive pattern also involves a second instance of a positive shock, which is highlighted in purple, and occurs in relation to the multiple-digit number 90 which is contained within this repetition pattern. This instance of a positive shock involves our first example of the odometer effect, in that this particular step involves the function "67+22", which should yield a sum of 89. though the next set of numbers which is involved in this progressive pattern involves the multiple-digit number 90, which indicates that this particular instance of a positive shock effects the entire set of numbers, as opposed to just the 9. If this instance of a positive shock only effected the 9, then this set would involve the multiple-digit number 81, which it does not. this set instead involves the multiple-digit number 90, which implies that there is an odometer rollover effect present here, in that "89+1=90". This odometer effect will be seen throughout this sub-chapter, and will always involve the multiple-digit number 89 being shocked up to the multiple-digit number 90.

Next, we will examine the two-digit three-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679
012345679
012345679(01)

Above, we see the two-digit three-step "+33" progressive pattern which is contained within this repetition pattern. This progressive pattern involves one instance of a positive shock, which in this case occurs on the 1 which is contained within this repetition pattern. (This two-digit three-step progressive pattern is a relatively short progressive pattern, as will be the case in relation to the two-digit six-step progressive pattern which is contained within this repetition pattern, as will be seen in a moment.)

Next, we will examine the two-digit four-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679
012345679
012345679012345679
012345679012345679
012345679012345679012345679
012345679012345679012345679012345679
012345679012345679012345679012345679012345679
012345679012345679012345679012345679012345679012345679
012345679012345679012345679012345679012345679012345679(01)

Above, we see the two-digit four-step "+44" progressive pattern which is contained within this repetition pattern. This progressive pattern involves three instances of a positive shock, along with one instance of a purple shock.

Next, we will examine the two-digit five-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679
012345679012345679
012345679012345679
012345679012345679012345679
012345679012345679012345679012345679
012345679012345679012345679012345679012345679012345679
012345679012345679012345679012345679012345679012345679012345679
012345679012345679012345679012345679012345679012345679012345679012345679
012345679012345679012345679012345679012345679012345679012345679012345679(01)

Above, we see the two-digit five-step "+55" progressive pattern which is contained within this repetition pattern. This progressive pattern involves four instances of a positive shock, along with one instance of a purple shock.

Next, we will examine the two-digit six-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679
01234567901234
0123456790123456790(01)

Above, we see the two-digit six-step "+66" progressive pattern which is contained within this repetition pattern. This progressive pattern involves one instance of a positive shock, which in this case occurs on the 1 which is contained within this repetition pattern. (This two-digit six-step "+66" progressive pattern is a relatively short pattern, as is also the case in relation to the two-digit three-step "+33" progressive pattern which was examined a moment ago.)

Next, we will examine the two-digit seven-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679
01234567901234
0123456790123456790
012345679012345679012
01234567901234567901234567990
0123456790123456790123456790123456790
012345679012345679012345679012345679012345679012345
01234567901234567901234567901234567901234567901234567901234
012345679012345679012345679012345679012345679012345679012345679(01)

Above, we see the two-digit seven-step "+77" progressive pattern which is contained within this repetition pattern. This progressive pattern involves six instances of a positive shock, along with one instance of a purple shock.

Next, we will examine the two-digit eight-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
0123456790
012345679012345679
01234567901234567901234567
0123456790123456790123456790123456
012345679012345679012345679012345679012345
01234567901234567901234567901234567901234567901234
0123456790123456790123456790123456790123456790123456790123
012345679012345679012345679012345679012345679012345679012345679012
012345679012345679012345679012345679012345679012345679012345679012345679012345679(01)

Above, we see the two-digit eight-step "+88" progressive pattern which is contained within this repetition pattern. This progressive pattern involves seven instances of a positive shock, as well as one instance of a purple shock.

Next, we will examine the two-digit nine-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679(01)

Above, we see the two-digit nine-step "+/-99/00" progressive pattern which is contained within this repetition pattern, with this being the first of the multiple-digit progressive pattern which have been examined in this sub-chapter which does not involve any instances of shocks.

The two-digit nine-step "+/-99/00" progressive pattern which is seen above is the no change progressive pattern which separates the cycles of this progressive pattern set. While each of the other two-digit progressive patterns which are contained within this repetition pattern display matching in relation to one of the progressive patterns which was examined in this section, for reasons which were explained in Chapter 3.3.

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Next, we will examine the various three-digit progressive patterns which are contained within this same repetition pattern, all of which are shown and explained below.

We will start by examining the three-digit one-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679
012345679
012345679
012345679
012345679
012345679
0123456790
01234567901
012345679(012)

Above, we see the three-digit (two shared) one-step "+111" progressive pattern which is contained within this repetition pattern. This progressive pattern involves one instance of a positive shock, along with one instance of a purple shock.

Next, we will examine the three-digit two-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679
012345679
012345679
01234567901
0123456790123
012345679012345
0123456790123456
01234567901234567
012345679012345679(012)

Above, we see the three-digit (one shared) two-step "+222" progressive pattern which is contained within this repetition pattern. This progressive pattern involves one instance of a positive shock, along with one instance of a purple shock.

Next, we will examine the three-digit three-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679
012345679
012345679(012)

Above, we see the three-digit (neighboring number) three-step "+333" progressive pattern which is contained within this repetition pattern. This progressive pattern involves one instance of a positive shock, which in this case occurs in relation to the 9 which is contained within this repetition pattern. (This three-digit three-step progressive pattern is a relatively short progressive pattern, as is the case in

relation to the three-digit six-step progressive pattern which is contained within this repetition pattern, as will be seen in a moment.)

Next, we will examine the three-digit four-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679
01234567901
012345679012345
01234567901234567 90
0123456790123456790 1234
0123456790123456790123456 79
01234567901234567901234567 90123
0123456790123456790123456790123 4567
012345679012345679012345679012345679(012)

Above, we see the three-digit four-step "+444" progressive pattern which is contained within this repetition pattern. This progressive pattern involves three instances of a positive shock, along with one instance of a purple shock.

Next, we will examine the three-digit five-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679
0123456790123
012345679012345679
0123456790123456790 1234
012345679012345679012345679 0
0123456790123456790123456790 12345
01234567901234567901234567901234567901
0123456790123456790123456790123456790123456
012345679012345679012345679012345679012345679(012)

Above, we see the three-digit five-step "+555" progressive pattern which is contained within this repetition pattern. This progressive pattern involves four instances of a positive shock, along with one instance of a purple shock.

Next, we will examine the three-digit six-step progressive pattern which is contained within this repetition pattern, which is shown below.

0123456790
0123456790
012345679012345
012345679012345679(012)

Above, we see the three-digit six-step "+666" progressive pattern which is contained within this repetition pattern. This progressive pattern involves two instances of a positive shock, which occur in relation to the 9 and the 2 which are contained within this repetition pattern. This three-digit six-step "+666" progressive pattern is a relatively short pattern, as is also the case in relation to the three-digit (neighboring number) three-step "+333" progressive pattern which was examined a moment ago. (This characteristic is also displayed by the two-digit three-step progressive pattern and the two-digit six-step progressive pattern which are contained within this same repetition pattern, as was seen in the previous section of this sub-chapter.) Also, the fact that this three-digit six-step "+666" progressive pattern does not involve any instances of purple shocks indicates that in relation to the various three-digit progressive patterns which are contained within this repetition pattern, the only progressive patterns which do not involve purple shocks are the three-step progressive pattern and the six-step progressive pattern, as is also the case in relation to the two-digit progressive patterns which are contained within this repetition pattern. (Though this exclusivity will not be displayed in relation to the various four-digit progressive patterns which are contained within this repetition pattern, as will be seen in the next section of this sub-chapter.)

Next, we will examine the three-digit seven-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
0123456790
01234567901234567
012345679012345679012345
0123456790123456790123456790123
012345679012345679012345679012345679012345679
0123456790123456790123456790123456790123456790123456
012345679012345679012345679012345679012345679012345679012345679012345679012345679012345679012345679012345679(012)

Above, we see the three-digit seven-step "+777" progressive pattern which is contained within this repetition pattern. This progressive pattern involves six instances of a positive shock, along with one instance of a purple shock.

Next, we will examine the three-digit eight-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679012345679012345679012345679012345679012345679012345679012345679012345679012345679012345679(012)

Above, we see the three-digit eight-step "+888" progressive pattern which is contained within this repetition pattern. This progressive pattern involves seven instances of a positive shock, along with one instance of a purple shock.

Next, we will examine the three-digit nine-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679(012)

Above, we see the three-digit nine-step "+/-999/000" progressive pattern which is contained within this repetition pattern. This progressive pattern does not involve any instances of shocks, as is the case in relation to the two-digit nine-step "+/-99/00" progressive pattern which was examined at the end of the previous section.

The three-digit nine-step "+/-999/000" progressive pattern which is seen above is the no change progressive pattern which separates the cycles of this progressive pattern set. While each of the other three-digit progressive patterns which are contained within this repetition pattern display matching in relation to one of the progressive patterns which was examined in this section, for reasons which were explained in Chapter 3.3.

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Next, rather than examine all of the multiple-digit progressive patterns which are contained within this repetition pattern, such as the various four-digit progressive patterns, the various five-digit progressive patterns, the various six-digit progressive patterns, etc., we will instead just examine a small representative sample of the multiple-digit progressive patterns which are contained within this repetition pattern which involve greater quantities of digits, in order to determine whether or not they display behavior which is similar to that which is displayed by the progressive patterns which involve lesser quantities of digits.

We will start by examining the four-digit one-step progressive pattern which is contained within this repetition pattern, which is shown below.

0123456790
0123456790
0123456790
0123456790
0123456790
0123456790
0123456790
0123456790
0123456790
0123456790
012345679(0123)

Above, we see the four-digit (three shared) one-step "+1111" progressive pattern which is contained within this repetition pattern. This progressive pattern involves one instance of a positive shock, which in this case occurs in relation to the 9 which is contained within this repetition pattern. Also, it should be noted that this progressive pattern does not involve an instance of a purple shock, nor does it involve a quantity of steps which involves a member of the 3/6 sibling/cousins. This means that this progressive pattern does not maintain the previously established sub-pattern which involves the fact that only the progressive patterns which involve quantities of steps which involve a member of the 3/6 sibling/cousins lack instances of purple shocks.

Next, we will examine the eight-digit one-step progressive pattern which is contained within this repetition pattern, which is shown below.

012345679
012345679
012345679
012345679
012345679
012345679
012345679
012345679
012345679
012345679
012345679(01234567)

Above, we see the eight-digit (seven shared) one-step "+11111111" progressive pattern which is contained within this repetition pattern. This progressive pattern involves one instance of a positive shock, which in this case occurs in relation to the 9 which is contained within this repetition pattern. This progressive pattern does not involve an instance of a purple shock, nor does it involve a quantity of steps which involves a member of the 3/6 sibling/cousins, which means that this progressive pattern does not maintain the previously established sub-pattern which involves the fact that only the progressive patterns which involve quantities of steps which involve a member of the 3/6 sibling/cousins lack instances of purple shocks. (The fact that the last two examples have not involved any instances of purple shocks indicates that this purple shock characteristic is not displayed in relation to the progressive patterns which involve greater quantities of digits.)

That brings this section, and therefore this sub-chapter, to a close. In this sub-chapter, we examined a representative sample of the fifty-six unique multiple-digit progressive patterns which are contained within this particular repetition pattern. However, it should be noted at this point that each of these multiple-digit progressive patterns is simply a unique collection of varying quantities of neighboring single-digit progressive patterns. Though these multiple-digit progressive patterns display unique behaviors, and therefore have been included in their own sub-chapter. (While the overall concept of progressive patterns will be examined more thoroughly in "Chapter 6.3 Progressive Patterns of the 6", as well as "Chapter 6.6 Averages".)