Contents

A Fancy Number

Step – 1

Write any four digits

2 6 8 9

Step – 2

Place the first digit at
the extreme right.

2 6 8 9 2

Step – 3

Find the difference between
two digits of each pair and
write the answer below
the pair as shown on the right.
(Again, repeat the first digit
of each row at the extreme
right of the row)

2 6 8 9 2

4 2 1 7 4

Step – 4

Continue this process until
you get a row with the same
digit.

```
2   6   8   9   2
  4   2   1   7   4
    2   1   6   3   2
      1   5   3   1   1
        4   2   2   0   4
          2   0   2   4   2
            2   2   2   2
```

Try with few more sets of 4 digits.

```
3  5  4  7  3              9  1  5  3  9
  2  1  3  4  2              8  4  2  6  8
    1  2  1  2  1              4  2  4  2  4
      1  1  1  1                2  2  2  2
```

↗ *Fancy numbers*

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What is a Numeral Palindrome?

A *numeral palindrome* is a number which reads the same forward and backward e.g. 3113, 8558 etc.

You can easily make many palindromes with 3-digit numbers.

Step 1

Choose any 3-digit number.

Step 2

Reverse its digits and add this number to the number you had chosen.

Step 3

You will get a numeral palindrome straight away, or continue the process till you get a palindrome.

1.

```
    5 9 7            1 3 9 2            4 3 2 3
  + 7 9 5          + 2 9 3 1          + 3 2 3 4
  ———————          —————————          —————————
  1 3 9 2            4 3 2 3            7 5 5 7
```

a palindrome

2.

```
    4 0 9
  + 9 0 4
  ———————
  1 3 1 3    ←——— a palindrome
```

3.

```
    6 3 4            1 0 7 0
  + 4 3 6          + 0 7 0 1
  ———————          —————————
  1 0 7 0            1 7 7 1    ←——— a palindrome
```