N = 17

1 x 10

10 x 10

15 x 10

1
X % 17 = 1

10
X % 17 = 10

15
X % 17 = 15

14
X % 17 = 14

16
X % 17 = 16

10 x 10 + 1

15 x 10 + 1

$$100 \times 10^5 + 10101$$
$$1001 \times 10^5 + 10101$$

$$(100 \times 10^5 + 10101)\%N = (100\%N \times 10^5\%N + 10101\%N)\%N$$