



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

$$(1001 \times 10^5 + 10101) \% N = (1001 \% N \times 10^5 \% N + 10101 \% N) \% N$$