num = 1 x10+2 = 10+2=12/19 $=12\times10 + 3 = 123$

$$(9) [234]$$

$$= 12 \times 10 + 3 = 123$$

$$(3^{N} + 1) \% M = (\frac{A}{2}) \% M = (A \cdot \frac{1}{2}) \% M$$

$$= (A \cdot 2^{-1}) \% M$$

$$= ($$

$$\Rightarrow a^{p-2} \equiv a^{-1} \pmod{p}$$

$$p-2 \pmod{p} \Rightarrow a^{-1}$$

$$a \neq p$$

$$(0.5)\% M \rightarrow (0.5)\% M$$