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$$x = 1$$
 2 0
 $f(x) = 1$ 2 $f(x) = x^{0}/63$

9003 = What is the Remaind when
$$9 \div 3$$

$$\frac{9}{3} = 3 \frac{10}{3} = 3 \frac{11}{3} = 3$$

$$9 - ((\frac{9}{3}) * 3) 10 - ((\frac{10}{3}) * 3) 10 - (3 * 3$$

 $[0,n-1] \quad y \text{ is a divisor of } n$ n% y=1 y is off by one from a divisor n% y= n-1' y is off by one from a divisor

$$f(x) = \begin{cases} x\%3! = 0 : x\%3 \\ x\%3 = 0 : 3 \end{cases}$$

$$f(985) = 1$$

$$f(984) = 3$$

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