

$$17 = 17 \times \left(1 - \frac{1}{17}\right)$$

$$= \cancel{17} \times \frac{16}{\cancel{17}} = 16$$

C.F

$$11 \rightarrow 11 \times \left(1 - \frac{1}{11}\right)$$

$$13 = 13 \times \left(1 - \frac{1}{13}\right) = \cancel{13} \times \frac{10}{\cancel{13}}$$
$$= \cancel{13} \times \frac{12}{\cancel{13}}$$
$$= 12$$
$$= 10$$

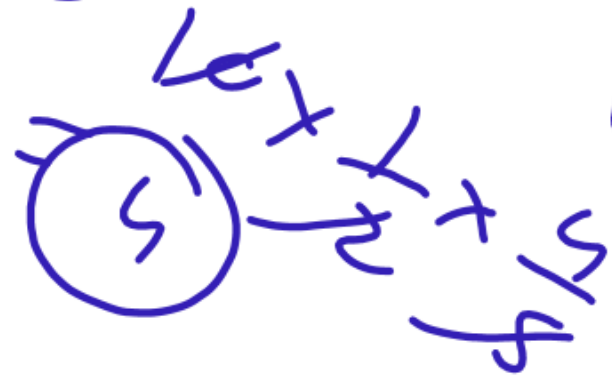
Prime Number = n

$$C.F = n - 1$$

$$9 = 3^2$$

$$C.F = 9 \times \left(1 - \frac{1}{3}\right) = 9 \times \frac{2}{3} = 6$$

C.F = $10 = 2 \times 5$



$$C.F = 10 \times \left(1 - \frac{1}{2}\right) \left(1 - \frac{1}{5}\right)$$

$$12 = 2^2 \times 3$$

$$C.F = 12 \times \left(1 - \frac{1}{2}\right) \left(1 - \frac{1}{3}\right) \\ = 1/2^2 \times \frac{1}{2} \times \frac{2}{3} = 4$$

$$C.F = 12 \times \left(1 - \frac{1}{2}\right) \left(1 - \frac{1}{3}\right) = 12 \times \frac{1}{2} \times \frac{2}{3} = 8$$

$$C.F \quad // S_2 = 13 \times 2^2$$

$$C.F = S_2 \times \left(1 - \frac{1}{13}\right) \left(1 - \frac{1}{2}\right)$$

$$= \cancel{S_2}^2 \times \frac{12}{\cancel{13}} \times \frac{1}{\cancel{2}}$$

$$= 24$$

$$\frac{(100)^{\frac{98}{12}}}{13}$$

$$\frac{(100)^2}{13}$$

$$= \frac{9^2}{13}$$

$$= \frac{81}{13}$$

$$R = 3$$

s

$$\frac{2^{100}}{(102)} = \cancel{2} \times 2^{99}$$

$$\frac{\quad}{\cancel{102}} \quad \quad \quad \frac{\quad}{51}$$

.

$$\frac{2^{99}}{51} = \frac{2^{99}}{3 \times 17}$$

R " " $\frac{2^{99}}{3}$
 F " " $\frac{2^{99}}{17}$
 T " " $\frac{2^{99}}{51}$

$$S1 = 17 \times 3$$

$$C.F = S1 \times \left(1 - \frac{1}{17}\right) \left(1 - \frac{1}{3}\right)$$

$$= S1 \times \frac{16}{17} \times \frac{2}{3}$$

" " $\frac{16}{32}$ $\frac{2}{3}$ $\frac{1}{17}$ $\frac{1}{3}$

$\times 4$

$$\begin{array}{r} \dots 4^{80} \\ \hline \dots 28 \end{array}$$

$$\begin{array}{r} \cancel{4} \times 4^{79} \\ \hline 28 \quad 7 \end{array}$$

$$\begin{array}{r} 4 \frac{79}{6} \\ \hline 7 \end{array}$$

$$= \frac{4}{7}, R = \frac{4 \times 4}{18}$$



$$\frac{32}{7}$$

A red circle highlights the fraction $\frac{32}{6}$ above the main fraction, with a red line striking through it.

$$\frac{32}{6} = \frac{16 \cdot 32}{3}$$

$$\frac{4^4}{7} \Rightarrow \frac{16 \times 16}{7} = 5$$
$$\frac{1 \times 32}{3} = 2 \times 2 = 4$$

∴ - -

$$\begin{array}{r}
 (113) \\
 \hline
 97
 \end{array}$$

$$\begin{array}{r}
 96 \\
 \hline
 97 \\
 96
 \end{array}$$

$$C.F = 96$$

$$\begin{array}{r}
 96 \\
 \hline
 97 \\
 96
 \end{array}$$

$$97$$

$$= \frac{113}{97}$$

$$R = 16$$

— — — — —

$$10^{10^1} + 10^{10^2} + 10^{10^3} + 10^{10^4} + \dots + 10^{10^{20}}$$

$$7$$

$$C - \bar{F} = \underline{G}$$

$$\frac{10^4}{7} = \frac{3^4}{7}$$

$$\frac{4 \times 20}{7}, R = 3$$

$$\frac{a^n}{a+1}, R=1$$

$n = \text{even}$

$$\frac{39}{39+1}$$

$R=1$

$$\frac{(39)^{93}}{39+1}$$

$R=1$