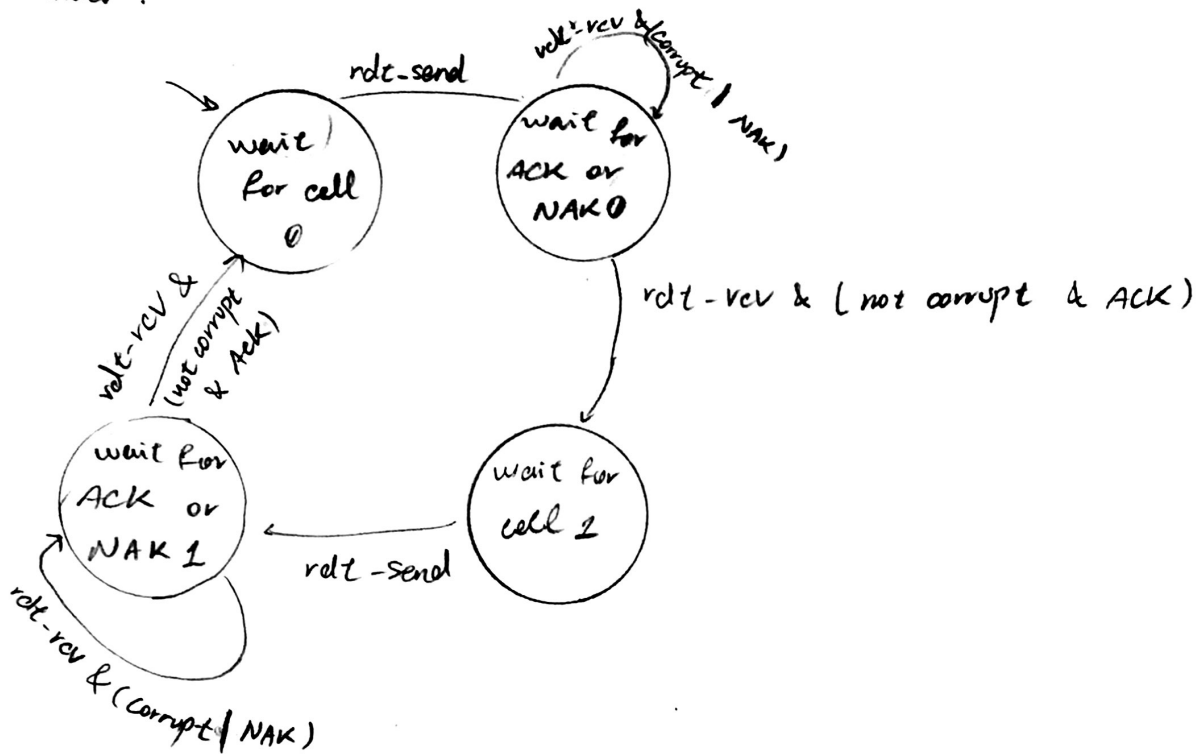
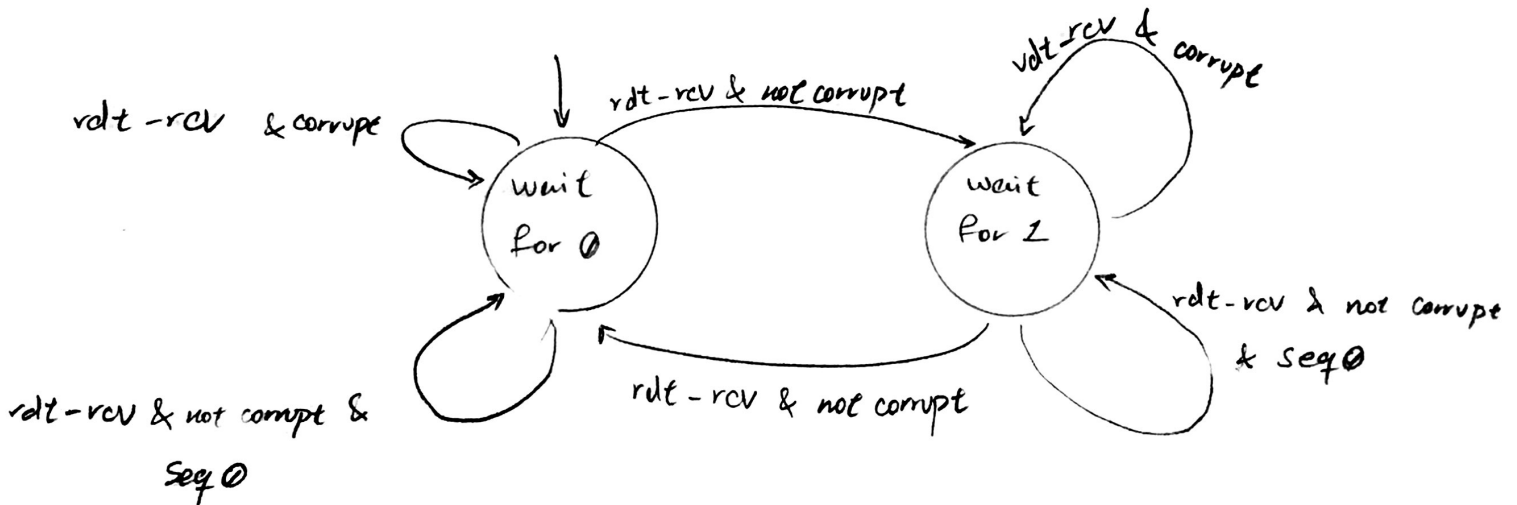


ii) Sender :



Receiver :



$$\text{مجموعه داده‌های RTT} = 9631407 \Rightarrow \text{تأخیر: } 96, 31, 407$$

$$\text{Estimated RTT} = (1-\alpha) \text{ Estimated RTT} + \alpha \text{ Sample RTT}, \alpha = 0.125$$

$$\Rightarrow \begin{cases} (0.875) \times 100 + (0.125) \times 96 = 99.5 \\ (0.875) \times 99.5 + (0.125) \times 31 = 90.94 \\ (0.875) \times 90.94 + (0.125) \times 407 = 130.45 \end{cases}$$

$$\text{Dev RTT} = (1-\beta) \times \text{Dev RTT} + \beta | \text{Sample RTT} - \text{Estimated RTT} |, \beta = 0.25$$

$$= \begin{cases} (0.75) \times 5 + (0.25) | 96 - 99.5 | = 4.625 \\ (0.75) \times (4.625) + (0.25) | 31 - 90.94 | = 0 \\ (0.75) \times (0) + (0.25) | 407 - 130.45 | \end{cases}$$

$$\text{Timeout interval} = \text{Estimated RTT} + 4 \times \text{Dev RTT}$$