

$$\begin{aligned} \tau_1 &= 2s & 0 \quad 2 \quad 4 \quad 6 \quad 8 \quad 10 \quad 12 \quad 14 \quad 16 \quad 18 \quad 20 \\ \tau_2 &= 3s & 0 \quad 3 \quad 6 \quad 9 \quad 12 \quad 15 \quad 18 \\ \tau_3 &= 5s & \\ \tau_4 &= 7s & 0 \quad 3 \quad 6 \quad 9 \quad 12 \quad 15 \quad 18 \quad 21 \quad 24 \quad 27 \quad 30 \\ \tau_5 &= 11s & 0 \quad 5 \quad 10 \quad 15 \quad 20 \quad 25 \end{aligned} \quad \left. \vphantom{\begin{aligned} \tau_1 &= 2s \\ \tau_2 &= 3s \\ \tau_3 &= 5s \\ \tau_4 &= 7s \\ \tau_5 &= 11s \end{aligned}} \right\} \begin{aligned} \tilde{\tau}_{\text{on}} &= 6s, \quad \varphi = 3s \\ \tilde{\tau}_2 &= 15s, \quad \varphi = 10s \end{aligned}$$

$$\tilde{\tau}_{ij} = \text{lcm}(i, j)$$

$$\begin{aligned} 0 \quad 5 \quad 10 \quad 15 \quad 20 \quad 25 \quad 30 \quad 35 \quad 40 \quad 45 \quad 50 \quad 55 \\ 0 \quad 7 \quad 14 \quad 21 \quad 28 \quad 35 \quad 42 \quad 49 \quad 56 \end{aligned} \quad \left. \vphantom{\begin{aligned} 0 \quad 5 \quad 10 \quad 15 \quad 20 \quad 25 \quad 30 \quad 35 \quad 40 \quad 45 \quad 50 \quad 55 \\ 0 \quad 7 \quad 14 \quad 21 \quad 28 \quad 35 \quad 42 \quad 49 \quad 56 \end{aligned}} \right\} \begin{aligned} \tilde{\tau} &= 35s, \quad \varphi = 21s \end{aligned}$$

$$\begin{aligned} 0 \quad 7 \quad 14 \quad 21 \quad 28 \quad 35 \quad 42 \quad 49 \quad 56 \quad 63 \quad 70 \quad 77 \quad 84 \quad 91 \quad 98 \\ 0 \quad 11 \quad 22 \quad 33 \quad 44 \quad 55 \quad 66 \quad 77 \quad 88 \quad 99 \end{aligned} \quad \left. \vphantom{\begin{aligned} 0 \quad 7 \quad 14 \quad 21 \quad 28 \quad 35 \quad 42 \quad 49 \quad 56 \quad 63 \quad 70 \quad 77 \quad 84 \quad 91 \quad 98 \\ 0 \quad 11 \quad 22 \quad 33 \quad 44 \quad 55 \quad 66 \quad 77 \quad 88 \quad 99 \end{aligned}} \right\} \begin{aligned} \tilde{\tau} &= 77s, \quad \varphi = 22s \end{aligned}$$

$$\varphi = \sum_0$$

$$\begin{aligned} 6a + 3 &= T \\ 15b + 10 + 1 &= T \\ 35c + 21 + 2 &= T \\ 77d + 22 + 3 &= T \end{aligned}$$

$$\begin{aligned} 1, 2, 3 : \quad & T - 10 \% 15 = 0 \quad \Rightarrow \quad T = 70 \\ & T - 1 - 3 \% 6 = 0 \end{aligned} \quad \begin{aligned} 1^\circ \quad & T = 68 \\ 2^\circ \quad & T = 69 \\ 3^\circ \quad & T = 70 \end{aligned}$$

$$\begin{aligned} \Rightarrow \text{find } T \in \mathbb{N} : \quad & (T - 22) \% 77 = 0 \\ & (T - 21 - 1) \% 35 = 0 \\ & (T - 10 - 2) \% 15 = 0 \\ & (T - 3 - 3) \% 6 = 0 \end{aligned}$$

