

$$f_{91}(N) = \begin{cases} f_{91}(f_{91}(N+11)), & \text{if } N \leq 100 \\ N-10, & \text{if } N \geq 101 \end{cases}$$

$$\begin{aligned} f_{91}(90) &= f_{91}(f_{91}(101)) = f_{91}(91) \\ &= f_{91}(f_{91}(102)) = f_{91}(92) = \dots \\ &= f_{91}(101) = 101 - 10 = 91 \end{aligned}$$

$$\xrightarrow{\text{faster}} f_{91}(N) = \begin{cases} 91, & \text{if } N \leq 100 \\ N-10, & \text{if } N \geq 101 \end{cases} \Rightarrow \boxed{\text{Slower } f_{91}(N) = \max(91, N-10)}$$