$$\frac{\rho \vdash x : \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash f : t_x \to \text{int}} P3 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho \vdash x : \text{int}}{\rho \vdash x : \text{int}} P1 \qquad P4 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad P4 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) = t_x \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad \frac{\rho(f) \to \text{int}}{\rho \vdash x : \text{int}} P1 \qquad$$

 $\rho \vdash \text{let } f \ x = \text{if } x < 10 \text{ then } 42 \text{ else } f(x+1) \text{ in } f \ 20 \text{ end} : \text{int}$