

**es-first-since**<sup>11,40</sup>

$$e_2 = \text{first } e \geq e_1.P(e) \equiv_{\text{def}} \text{es-le}(es; e_1; e_2) \wedge P(e_2) \wedge \forall e \in [e_1, e_2]. \neg P(e)$$

*clarification:*

$$\begin{aligned} & \text{es-first-since}(es; e.P(e); e_1; e_2) \\ & \equiv_{\text{def}} \text{es-le}(es; e_1; e_2) \wedge P(e_2) \wedge \text{alle from } es \text{ in } [e_1; e_2]. \neg P(e) \end{aligned}$$