$$I[\mathbf{x}_0] \wedge T[\mathbf{x}_0, \mathbf{x}_1] \wedge \ldots \wedge T[\mathbf{x}_{i-2}, \mathbf{x}_{i-1}] \vDash_{\mathcal{L}} \phi[\mathbf{x}_{i-1}] \text{ for } i \in [1, k] \qquad (base_k)$$

$$T[\mathbf{x}_0, \mathbf{x}_1] \wedge \ldots \wedge T[\mathbf{x}_{k-1}, \mathbf{x}_k] \wedge \phi[\mathbf{x}_0] \wedge \ldots \wedge \phi[\mathbf{x}_{k-1}] \vDash_{\mathcal{L}} \phi[\mathbf{x}_k] \qquad (step_k)$$

$$\phi[\mathbf{x}] \vDash_{\mathcal{L}} P[\mathbf{x}] \qquad (implication)$$