

Leads-To Induction

$$WellFounded(N, - \succ -) \triangleq \neg \exists ch \in b[Nat \rightarrow N] : \forall i \in Nat : ch[i] \succ ch[i + 1]$$

$$LTSet(N, - \succ -, n) \triangleq \{m \in N : n \succ m\}$$

$$\begin{aligned} LeadsToInduction(F(-), N, - \succ -, z) &\triangleq \\ &\wedge WellFounded(N, \succ) \\ &\wedge \forall n \in N \setminus \{z\} : F(n) \leadsto (\exists m \in LTSet(N, \succ, n) : F(m)) \\ &\Rightarrow ((\exists n \in N : F(n)) \leadsto F(z)) \end{aligned}$$

[CLOSE](#)