$$R^*(s_1,s), v \neq \text{null}, i_1 \leq_1 u \leq_1 v \Rightarrow v \leq u$$

$$R(s_0,s_1), i_1 \leq_0 v \Rightarrow i_1 \leq_1 v \quad R^*(s_1,s), v \neq \text{null}, i_1 \leq_1 v \Rightarrow v \leq i_1$$

$$R(s_0,s_1), R^*(s_1,s), v \neq \text{null}, i_1 \leq_0 v \Rightarrow v \leq i_1$$

$$R(s_0,s_1) \Rightarrow i_1 = n_0(i_0)$$

$$\vdots \\ R(s_0,s_1), R^*(s_1,s), \vdots \\ R(s_0,s_1), R^*(s_1,s), \vdots \\ R(s_0,s_1), R^*(s_1,s), v \neq \text{null}, n_0(i_0) \leq_0 v \Rightarrow v \leq i_0$$

$$R(s_0,s_1), R^*(s_1,s), v \neq \text{null}, n_0(i_0) \leq_0 v \Rightarrow v \leq i_0$$

$$R(s_0,s_1), R^*(s_1,s), v \neq \text{null}, n_0(i_0) \leq_0 v \Rightarrow v \leq u$$

$$Case$$

$$Case$$

$$Case$$

$$Case$$