Exercise 4.f.6. [1XP]Prerequisites:[26H],[1XS].Difficulty:*.
Assume that a (partial) order $\leq$ *associated to* $\mathbb{N}$ *satisfies* [26H]. *Use the strong induction principle* [1XS] *to show that every non-empty* $A \subseteq \mathbb{N}$ *contains a minimal element*, i.e.

$$\exists a \in A\ ,\ \forall b \in A\ ,\ \neg(b < a) \quad .$$

Solution 1. [1XZ]