

## Solution to Exercise 1.9

- $i - 1$  is the number of iterations completed.
- $\forall k \in [0, i), \text{smallest\_so\_far} \leq \text{sequence}[k]$ .
- $0 \leq \text{smallest\_pos} < i$ .
- $\text{sequence}[\text{smallest\_pos}] = \text{smallest\_so\_far}$ .