

## Test Pattern Matching

[*EntryPM*]

$$\left| \begin{array}{l} \text{filterSeq} : \text{seq } \text{EntryPM} \longrightarrow \text{seq } \text{EntryPM} \\ \hline \text{filterSeq}(\langle \rangle) = \langle \rangle \\ \forall x : \text{EntryPM} \bullet \forall s : \text{seq } \text{EntryPM} \bullet \text{filterSeq}(\langle x \rangle \frown s) = \langle x \rangle \frown \text{filterSeq}(s) \end{array} \right.$$

This demonstrates pattern matching on sequences with base case  $(\langle \rangle)$  and recursive case  $(\langle x \rangle \frown s)$ .