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| MODULE <i>utils</i>   |
| LOCAL INSTANCE <i>Integers</i><br>LOCAL INSTANCE <i>Sequences</i> |

  

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| $  \begin{aligned}  \text{Max}(S) &\triangleq \\  &\quad \text{IF } S = \{\} \text{ THEN } 0 \\  &\quad \text{ELSE CHOOSE } m \in S : \forall x \in S : m \geq x \\  \\  \text{PruneLasts}(seq, n) &\triangleq \\  &\quad \text{IF } n < 1 \text{ THEN } \langle \rangle \\  &\quad \text{ELSE IF } n \geq \text{Len}(seq) \text{ THEN } seq \\  &\quad \text{ELSE } \text{SubSeq}(seq, \text{Len}(seq) - n + 1, \text{Len}(seq)) \\  \\  \text{PruneFirsts}(seq, n) &\triangleq \\  &\quad \text{IF } n < 1 \text{ THEN } \langle \rangle \\  &\quad \text{ELSE IF } n \geq \text{Len}(seq) \text{ THEN } seq \\  &\quad \text{ELSE } \text{SubSeq}(seq, 1, \text{Len}(seq) - n + 1) \\  \\  \text{IsPrefix}(p, s) &\triangleq \\  &\quad \wedge \text{Len}(p) \leq \text{Len}(s) \\  &\quad \wedge \forall i \in 1 \dots \text{Len}(p) : p[i] = s[i]  \end{aligned}  $ |
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