

Inference at *
of proof for Lemma fseg_select:

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⊢∀T:Type, l1, l2:(T List).
  fseg(T;l1;l2)
  ⇔ ((||l1|| ≤ ||l2||) c ∧ (∀i:ℕ. (i < ||l1|| ⇒ (l1[i] = l2[((||l2|| - ||l1||)+i)])))
  by ((Auto')
  CollapseTHEN ((Try (((BLemma 'fseg_length')
  CollapseTHEN (Auto·))))·)).
```

1:

1. $T : \text{Type}$
 2. $l_1 : T \text{ List}$
 3. $l_2 : T \text{ List}$
 4. $\text{fseg}(T;l_1;l_2)$
 5. $i : \mathbb{N}$
 6. $i < \|l_1\|$
- $\vdash l_1[i] = l_2[(\|l_2\| - \|l_1\|)+i]$

2:

1. $T : \text{Type}$
 2. $l_1 : T \text{ List}$
 3. $l_2 : T \text{ List}$
 4. $(\|l_1\| \leq \|l_2\|) \text{ c} \wedge (\forall i:\mathbb{N}. (i < \|l_1\|) \Rightarrow (l_1[i] = l_2[(\|l_2\| - \|l_1\|)+i]))$
- $\vdash \text{fseg}(T;l_1;l_2)$
- .