

```
⊢ ∀h:ℤ. ∀t:ℤ List. (initseg_sum(0;[h / t]) = h)
|
BY RepeatFor 2 ((D 0 THENA Auto))
|
1. h: ℤ
2. t: ℤ List
⊢ initseg_sum(0;[h / t]) = h
|
BY Unfold 'initseg_sum' 0
|
⊢ l_sum(firstn(0 + 1;[h / t])) = h
|
BY (RecUnfold 'firstn' 0 THEN Reduce 0)
|
⊢ l_sum([h / firstn(0;t)]) = h
|
BY (InstLemma 'first0' [↑t]· THENA Auto)
|
3. firstn(0;t) ~ []
⊢ l_sum([h / firstn(0;t)]) = h
|
BY (HypSubst 3 0 THENA Auto)
|
⊢ l_sum([h]) = h
|
BY RepUR 'l_sum' 0
|
⊢ (h + 0) = h
|
BY Auto
```