

Inference at * 1 2 1 1 1 1
of proof for Lemma fincr_formation:

```

1. i : ℕ
2. f : {f | i:{i₁:ℕ | i₁ < i} → if (i =₀ 0) then ℤ else {f(i - 1)...} fi }
3. j : ℕ
4. ∀j₁:ℕ. (j₁ < j) ⇒ (j₁ < i) ⇒ (f(j₁) ∈ ℤ)
5. j < i
6. y : if (j =₀ 0) then ℤ else {f(j - 1)...} fi
7. y = f(j)
⊢ f(j) ∈ ℤ
  by ((SplitITE (-1))
    CollapseTHEN (Try (((Auto_aux (first_nat 1:n) ((first_nat 1:n
      ),(first_nat 3:n)) (first_tok :t) inil_term))
    CollapseTHEN (Fail)).))

1: ....falsecase..... NILNIL

      7. y = f(j)
      8. j ≠ 0
      ⊢ f(j) ∈ ℤ
.

```