

Inference at * 1
of proof for Lemma mul_preserves_le:

```

1. a : ℤ
2. b : ℤ
3. n : ℕ
4. a ≤ b
⊢ (n * a) ≤ (n * b)
  by ((NInd 3)
    CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)
      )) (first_tok :t) inil_term)))·

1: .....basecase..... NILNIL

      3. a ≤ b
      ⊢ (0 * a) ≤ (0 * b)
2: .....upcase..... NILNIL

      3. a ≤ b
      4. n : ℤ
      5. 0 < n
      6. ((n - 1) * a) ≤ ((n - 1) * b)
      ⊢ (n * a) ≤ (n * b)
.

```