

Inference at * 1
of proof for Lemma mul_preserves_lt:

```

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

```

1:basecase..... NILNIL

```

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

```

2:upcase..... NILNIL

```

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

```

.