

Inference at \* 1  
of proof for Lemma assert\_of\_bnot:

```
1. p : ℤ
  ⊢(↑(¬bp)) ⇒ (¬(↑p))
  by (((BoolInd 1)
    CollapseTHEN (((Unfolds “assert bnot not“ 0)
      CollapseTHEN (
        Rewrite (RepeatC (HigherC ifthenelse_evalC) 0)).))·)
    CollapseTHEN (
      (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·
```