Inference at $*$
of proof for Lemma eq_int_eq_false_elim_sqequal:

$\vdash \forall i, j{:}\mathbb{Z}.\ ((i =_0 j) \sim \text{ff}) \Rightarrow i \neq j$
by (RepeatFor 2 ((D 0)
THENW ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat
3:n)) (first_tok :t) inil_term)))·)

1:

1. $i : \mathbb{Z}$
2. $j : \mathbb{Z}$
$\vdash ((i =_0 j) \sim \text{ff}) \Rightarrow i \neq j$

.