```
bool_cases_sqequal  THM

⊢  ∀b:𝔹. (b ∼ true₂) ∨ (b ∼ false₂)  by Analyze 0
|
1. b : 𝔹
⊢  (b ∼ true₂) ∨ (b ∼ false₂)
| by Analyze 1 THEN Analyze 1 THEN Thin 1
|    THEN
|    Unfolds [‘btrue‘;‘bfalse‘] 0
|    THEN
|    Fold ‘it‘ 0
|
|\
| (no hyps)
| ⊢  (inl(·) ∼ inl(·)) ∨ (inl(·) ∼ inr(·))  by Sel 1 (Analyze 0)
|
.\
. (no hyps)
. ⊢  (inr(·) ∼ inl(·)) ∨ (inr(·) ∼ inr(·))  by Sel 2 (Analyze 0)
END
```