```
bool_cases  THM

⊢  ∀b:𝔹. b = true_2 ∨ b = false_2  by Analyze 0
|
1. b : 𝔹
⊢  b = true_2 ∨ b = false_2  by BoolInd 1
|
|\
| (no hyps)
| ⊢  true_2 = true_2 ∨ true_2 = false_2  by DNth 1 0
|
.\
. (no hyps)
. ⊢  false_2 = true_2 ∨ false_2 = false_2  by DNth 2 0
END
```