```
arb_wf  THM

⊢  ∀T:S. arb(T) ∈ T  by Unfold ‘arb‘ 0 THEN StrongAuto
|
.....subterm .....
1. T : S
2. x1 : T→Void
3. lem(T) = inr(x1)
⊢  "uu" ∈ T  by Analyze 1 THEN StrongAuto
|
1. T : Type
2. ∃x:T. True
3. x1 : T→Void
4. lem(T) = inr(x1)
⊢  "uu" ∈ T  by Analyze 2 THEN StrongAuto
|
1. T : Type
2. T
3. True
4. x1 : T→Void
5. lem(T) = inr(x1)
⊢  "uu" ∈ T
  by Assert Void THEN StrongAuto THEN UseWitness (x1(x))
     THEN
     StrongAuto
END
```