```
one_one_sym  THM

⊢  (T ∼ S) ⇒ (S ∼ T)  by UnivCD
|
1. T : Type
2. S : Type
3. T ∼ S
⊢  S ∼ T  by Analyze 3
|
3. f : T→S
4. ∃g:(S→T). InvFuns(T; S; f; g)
⊢   by Analyze 4
|
4. g : S→T
5. InvFuns(T; S; f; g)
⊢   by Analyze 5
|
5. g o f = Id
6. f o g = Id
⊢   by Unfold ‘one_one_corr‘ 0
|
⊢  ∃f:(S→T), g:(T→S). InvFuns(S; T; f; g)  by Witness g
|
⊢  ∃g@0:(T→S). InvFuns(S; T; g; g@0)  by Witness f
|
⊢  InvFuns(S; T; g; f)  by Analyze 0
END
```