

Inference at * 2
of proof for Lemma symmetrized_preorder:

```
1. T : Type
2. R : T → T →  $\mathbb{P}$ 
3. Refl(T;x,y.R(x,y))
4. Trans(T;x,y.R(x,y))
 $\vdash$  Sym(T;a,b.R(a,b) & R(b,a))
  by ((Unfold 'sym' 0)
      CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
        ),(first_nat 3:n)) (first_tok :t) inil_term)))).
```