

Inference at *
of proof for Lemma p-compose_wf:

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⊢∀A, B, C:Type, g:(A→(B + Top)), f:(B→(C + Top)). f o g ∈ A→(C + Top)
by ((Auto·)
CollapseTHEN (((Unfold 'p-compose' ( 0)·)
CollapseTHEN (((
  (if (((first_nat 2:n)) = 0) then (Repeat (MaAutoStep)) else (RepeatFor (first_nat 2:n) (
    MaAutoStep))))·)
CollapseTHEN ((Try ((Complete (Auto·))·))·))·))·))·
```

1:

1. $A : \text{Type}$
 2. $B : \text{Type}$
 3. $C : \text{Type}$
 4. $g : A \rightarrow (B + \text{Top})$
 5. $B \rightarrow (C + \text{Top})$
 6. $x : A$
 7. $\neg(\uparrow\text{can-apply}(g;x))$
- ⊢ $g(x) \in (C + \text{Top})$