```
Instance:
                                                                                                            {'a -> int}
                                                                                                                                Const-
                                                                                                            \{ {\tt id}: {\tt ALL} \ {\tt 'a}.
                                                                                                                                        \{ {\tt id}: {\tt ALL} \ {\tt 'a}.
                                  Instance:
                                                                                                            'a -> 'a}⊢
                                                                                                                                         'a -> 'a}⊢
                                                                         Const —
                                  {'a -> bool}
                                                                                \{id:ALL 'a.
                                                                                                          id:int -> int
                                                                                                                                            2: int
Var —
                                                            Instance:
                                                                                  'a -> 'a} ⊢ App -
                            Var
                                                            {'a -> int}
                                                                                                         \{ \texttt{id} : \texttt{ALL 'a. 'a -> 'a} \; | \; \texttt{id 2} : \texttt{int}
     \{\mathtt{x}: \mathtt{`a}\} \vdash
                                  \{id:ALL 'a.
                                                                                     3:int
                                   'a -> 'a} ⊢
                                                           BinOp -
       x:'a
                                                                              \{ \texttt{id} : \texttt{ALL 'a.'a -> 'a} \; | \; \texttt{(3 = id 2):bool}
                               id:bool -> bool
\{\} \vdash fun x \rightarrow x App -
     : 'a -> 'a
                                                                 \{\text{id}: \texttt{ALL 'a.'a -> 'a}\} \vdash \text{id (3 = id 2)}: \texttt{bool}
Let —
```

 $\{\}\vdash \text{let id = fun } x \rightarrow x \text{ in id } (3 = \text{id } 2) : \text{bool}$