

$[\text{append} \xrightarrow{\text{pyk}} \text{“append”}]$
 $[\text{append}(x, y) \xrightarrow{\text{tex}} \text{“append}(\#1., \#2.)”]$
 $[\text{append}(x, y) \xrightarrow{\text{val}} y :: x]$
 $[\text{append}(2, 1) \approx 1 :: 2]$
 $[\text{append}(3, 1 :: 2) \approx 1 :: 2 :: 3]$