

$((IF\ TRUE)\ (SUCC\ ZERO))\ ZERO$

$\beta \rightarrow$ 
 $\left( \left( \lambda b. \lambda t. \lambda e. \left( (b\ t)\ e \right) \right) \right.$ 
 $\left. \left( \lambda x. \lambda y. x \right) \left( \lambda n. \lambda k. n\ \lambda x. x \right) \right) \lambda x. x$

$\beta \rightarrow$ 
 $\left( \left( \lambda t. \lambda e. \left( \left( \lambda x. \lambda y. x\ t \right) e \right) \right) \right.$ 
 $\left. \left( \lambda n. \lambda k. n\ \lambda x. x \right) \right) \lambda x. x$

$\beta \rightarrow$ 
 $\left( \lambda e. \left( \left( \lambda x. \lambda y. x \left( \lambda n. \lambda k. n\ \lambda x. x \right) \right) e \right) \right.$ 
 $\left. \lambda x. x \right)$

$\beta \rightarrow$ 
 $\left( \left( \lambda x. \lambda y. x \left( \lambda n. \lambda k. n\ \lambda x. x \right) \right) \right.$ 
 $\left. \lambda x. x \right)$

$\beta \rightarrow$ 
 $\left( \lambda y. \left( \lambda n. \lambda k. n\ \lambda x. x \right) \right.$ 
 $\left. \lambda x. x \right)$

$\beta \rightarrow$ 
 $\left( \lambda n. \lambda x. n \right.$ 
 $\left. \lambda x. x \right)$

$\beta \rightarrow$ 
 $\lambda x. \lambda x. x$