

Task 2. Combinator Reduction

Dmitriy Panfilyonok

$$\begin{aligned} SKK &= (\lambda f g x. f x (g x)) (\lambda x y. x) (\lambda x y. x) \\ &\rightarrow_{\beta} (\lambda g x. (\lambda x y. x) x (g x)) (\lambda x y. x) \\ &\rightarrow_{\beta} (\lambda g x. (\lambda y. x) (g x)) (\lambda x y. x) \\ &\rightarrow_{\beta} (\lambda g x. x) (\lambda x y. x) \\ &\rightarrow_{\beta} \lambda x. x \\ &= I \end{aligned}$$