

mutual-primitive-recursion^{11,40}

$\forall A, B:\text{Type}, f_0:A, g_0:B, F:(\mathbb{N} \rightarrow A \rightarrow B \rightarrow A), G:(\mathbb{N} \rightarrow A \rightarrow B \rightarrow B).$
 $\exists f:\mathbb{N} \rightarrow A$
 $\exists g:\mathbb{N} \rightarrow B$
 $(f(0) = f_0$
 $\& g(0) = g_0$
 $\& (\forall s:\mathbb{N}^+. f(s) = F(s - 1, f(s - 1), g(s - 1)) \& g(s) = G(s - 1, f(s - 1), g(s - 1)))$)