

1 Грамматика

$Program ::= Definition \ Program \mid Term$
 $Definition ::= 'let' \ Var \ '=' \ Term$
 $Term ::= Abstraction \mid Application \mid Atom$
 $Abstraction ::= \ Params \ . \ Term$
 $Params ::= Var \ Params \mid Var$
 $Application ::= Atom \ AppTail$
 $AppTail ::= Atom \ AppTail \mid Atom$
 $Atom ::= Var \mid (Term)$
 $Var ::= [a - zA - Z]^+$

2 Примеры вывода

2.1 Пример 1: $\backslash x \ y.x$

$Program \rightarrow Term \rightarrow Abstraction \rightarrow$
 $\backslash Params.Term \rightarrow \backslash Var \ Params.Term \rightarrow$
 $\backslash x \ Params.Term \rightarrow \backslash x \ Var.Term \rightarrow$
 $\backslash x \ y.Term \rightarrow \backslash x \ y.Atom \rightarrow$
 $\backslash x \ y.Var \rightarrow \backslash x \ y.x$

2.2 Пример 2: $(\backslash x.x \ y) \ z$

$Program \rightarrow Term \rightarrow Application \rightarrow Atom \ AppTail \rightarrow$
 $(Term) \ AppTail \rightarrow (Abstraction) \ AppTail \rightarrow$
 $(\backslash Params.Term) \ AppTail \rightarrow (\backslash Var.Term) \ AppTail \rightarrow$
 $(\backslash x.Term) \ AppTail \rightarrow (\backslash x.Abstraction) \ AppTail \rightarrow$
 $(\backslash x.Atom \ AppTail) \ AppTail \rightarrow (\backslash x.Var \ AppTail) \ AppTail \rightarrow$
 $(\backslash x.x \ AppTail) \ AppTail \rightarrow (\backslash x.x \ Atom) \ AppTail \rightarrow$
 $(\backslash x.x \ Var) \ AppTail \rightarrow (\backslash x.x \ y) \ AppTail \rightarrow$
 $(\backslash x.x \ y) \ Atom \rightarrow (\backslash x.x \ y) \ Var \rightarrow (\backslash x.x \ y) \ z$