

$stmts \rightarrow stmts\ stmt$

$stmts \rightarrow \varepsilon$

$stmt \rightarrow print(expr);$

$stmt \rightarrow id = expr;$

$stmt \rightarrow if(bool)stmt$

$stmt \rightarrow if(bool)stmt\ else\ stmt$

$stmt \rightarrow while(bool)stmt$

$stmt \rightarrow do\ stmt\ while(bool);$

$stmt \rightarrow \{stmts\}$

$bool \rightarrow bool\ \# \ bool$

$bool \rightarrow bool\ \% \ bool$

$bool \rightarrow (bool)$

$bool \rightarrow !bool$

$bool \rightarrow rel$

$rel \rightarrow expr == expr$

$rel \rightarrow expr <> expr$

$rel \rightarrow expr < expr$

$rel \rightarrow expr <= expr$

$rel \rightarrow expr > expr$

$rel \rightarrow expr >= expr$

$rel \rightarrow expr <> expr$

$expr \rightarrow expr + term$

$expr \rightarrow expr - term$

$expr \rightarrow term$

$term \rightarrow term * unary$

$term \rightarrow term / unary$

$term \rightarrow unary$

$unary \rightarrow -unary$

$unary \rightarrow pow$

$pow \rightarrow factor \wedge pow$

$pow \rightarrow factor$

$factor \rightarrow num$

$factor \rightarrow (expr)$

$factor \rightarrow id$