

Grammar Tuple: (V,  $\Sigma$ , R, S)

V = Non-Terminals = {S, SourceFile, PackageDeclarationRest, ImportDeclaration, MainBody, Body, TopLevelDeclaration, MainFunc, PackageIdentifier, VoidFuncBody, ImportPath}

$\Sigma$  = Terminals = Tokens (see "Tokens" subfolder)

S = Starting Variable = S

R = Production Rules (as following):

S	→ SourceFile
SourceFile	→ "package" PackageDeclarationRest
PackageDeclarationRest	→ "main" ";" ImportDeclaration MainBody   PackageIdentifier ";" ImportDeclaration Body
ImportDeclaration	→ $\epsilon$   "import" ImportPath ";" ImportDeclaration
ImportPath	→ \"[a-zA-Z]+\"
MainBody	→ TopLevelDeclaration MainFunc TopLevelDeclaration
Body	→ TopLevelDeclaration
TopLevelDeclaration	→ $\epsilon$
MainFunc	→ "func" "main" "(" "(" " {" VoidFuncBody "}"
PackageIdentifier	→ [a-zA-Z]   [_a-zA-Z][_a-zA-Z0-9]+
VoidFuncBody	→ $\epsilon$