

Grammar Tuple: (V, Σ , R, S)

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

Σ = 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 | -> ϵ |
| MainBody | -> TopLevelDeclaration MainFunc TopLevelDeclaration |
| Body | -> TopLevelDeclaration |
| TopLevelDeclaration | -> ϵ |
| MainFunc | -> "func" "main" \(\) \{ VoidFuncBody \} |
| PackageIdentifier | -> [a-zA-Z] [_a-zA-Z][_a-zA-Z0-9]+ |
| VoidFuncBody | -> ϵ |