

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

V = Non-Terminals = {s, source\_file, package\_declaration, import\_declaration, import\_path, toplevel\_declaration, function\_name, function, signature\_rest, function\_body}

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

S = Starting Variable = S

R = Production Rules (as following):

s	= source_file.
source_file	= package_declaration “;” import_declaration.
import_declaration	= "import" import_path import_declaration.   "import" import_path   top_level_declaration .
package_declaration	= “package” package_name .
package_name	= PID   LETTER .
import_declaration	“import” import_path “;” import_declaration   “import” import_path “;” .
import_path	= STRING .
toplevel_declaration	= toplevel_declaration “func” function_name function EOF.   “func” function_name function EOF.
function_name	= ID   PID.
function	= signature_rest function_body .
signature_rest	= “(“ “)” .
function_body	= “{“ “}” .