first(program) = {int, void}

first(declaration-list) = {int, void}

first(declaration) = {int, void}

first(var’fun’) = {;, [, (}

first(params) = {void, int}

first(param-list) = {int}

first(param) = {int}

first(compound-stmt)={int, empty}

first(local-declarations) ={int, empty}

first(statement-list)={empty, if, while, return}

first(statement) = {NUM, (, ID, if, while, return}

first(expression-stmt) ={NUM, (, ID}

first(selection-stmt)={if}

first(iteration-stmt)={while}

first(return-stmt)={return}

first(expression)={NUM, (, ID}

first(expression’)={=, NUM, (, ID}

first(expression’’)={NUM, (, ID, + , -, empty}

first(var-call)={[, (}

first(simple-expression’)={+, - , empty}

first(relop)={<=, <, >, =>, ==, !=}

first(additive-expression)={+,-,empty}

first(additive-expression’)={\*, / ,empty}

first(addop)={+, -}

first(term)={(, ID, NUM}

first(term’)={empty, \*, /}

first(mulop)={\*, /}

first(factor)={(, ID, NUM}

first(args)={NUM, (, ID}