Fun-c {

Program =Statement+

Statement =Decl(vname, type t0)

| Init (vname v, expression expr)

| DeclInit(vname v, type t0, expression expr)

| Return(expression expr)

| Deletion(vname v)

| FunctionDef(vname v, type t0, funcExpr expression)

| DynamicFunctionDef(vname v, type t0, funcExpr expression)

& ;

expression =FunctionCall(type t0, type t1, …)

| DynamicFunctionCall(vname v, type 0, type 1, …)

| UnaryOp(unaryOp op, type t0)

| BinaryOp(type t0, binaryOp, op, type t1)

| TernaryOp(bool , statement1, statement2)

| Compare(type t0, compOp, op, type t1)

Type = int8

| i16

| i32

| i64

| m8

| m16

| m32

| m64

| f32

| f64

| vec2

| vec3

| vec4

| mat2

| mat3

| mat4

| set

| array

| func

unaryOp = ! (return true if non-zero)

| ~ (binary complement)

| \* (deref operator)

| & (ref operator)

| - (minus operator)

binaryOp = +

| -

|$+ (signed add)

| $- (signed minus)

| /

| \*

| \*\*

| %

| ^

| |

| &

compareOp = ||

| &&

| << (shift/append operator)

| >> (shift/append operator)  
 | <

| <=

| >

| >=

| ==

| !=

| in (set operator)

}