Syntax Summary for C-- language

Note: symbols in bold denote literal characters; an item in square braces [] may be present or not.

```
program:
        external-definition [program]
external-definition:
        function-definition
        data-definition
function-definition:
        [type-specifier] identifier ([parameter-list]) compound-statement
parameter-list:
        type-specifier identifier[, parameter-list]
type-specifier:
        int
data-definition:
        type-specifier declarator-list;
declarator-list:
        identifier [, declarator-list]
compound-statement:
        { [declaration-list] [statement-list] }
declaration-list:
        data-definition [declaration-list]
statement-list:
        statement [statement-list]
statement:
        compound-statement
        expression;
        if ( expression ) statement [else statement]
        while (expression) statement
        do statement while (expression);
        continue;
        break;
        return [expression];
```

```
expression:
        identifier
        integer
        (expression)
        - expression
        ! expression
        expression binop expression
        Ivalue assignop expression
        identifier ( [expression-list] )
expression-list:
        expression[, expression-list]
        string[, expression-list]
binop:
                /
        +
        <
                        <=
                                >=
                !=
        ==
        &&
                П
Ivalue:
        identifier
assign-op:
        =
integer:
        string of any number of digits
string:
        string of any number of characters in ""
identifier:
        letter or _ optionally followed by any number of alphanumerics or _
whitespace:
        blank, tab, newline, or comment
comment:
        /* anything */
        // anything
Reserved keywords:
        auto, break, case, char, continue, default, do, double, else, enum, extern, float, for, goto, if,
int, long, register, return, short, sizeof, static, struct, switch, typedef, union, unsigned, while
```