<program>

-> <declaration>

| <program> <program>

|

;

<declaration>

-> <variable\_declaration> SM

| <function\_declaration>

| <statement SM>

;

<statement>

-> <assignment>

| <call>

| <return>

;

<variable\_declaration>

-> <type\_ listid> ;

<type>

: INT|FLOAT

;

<listid>

-> ID CM <listid>

| ID

;

<function\_declaration>

-> <type> ID LP <list\_parameter> RP LB <body> RB;

<list\_parameter>

: <variable\_declaration> SM <list\_parameter>

| <variable\_delaration>

;

<body>

: <variable\_declaration> SM <body>

| <statement> SM <body>

|

;

<assignment>

-> ID EQ <expression>

;

<expression>

-> <expression1> ADD <expression>

| <expression>

;

<expression1>

: <expression2> SUB <expression2>

;

<expression2>

: <operand> (MUL | DIV) <expression2>

;

<operand>

-> INTLIT

| FLOATLIT

| ID

| <call>

| <sub\_expression>

;

<call>

-> ID LP <list\_expression> RP

;

<list\_expression>

-> <expression> CM <list\_expression>

| <expression>

;

<sub\_expression>

-> LP <expression> RP

;

<return>

-> RETURN <expression>

;