```
token MAIN
token WRITE
token OPEN CURLY BRACKET
token CLOSED CURLY BRACKET
 stoken OPEN RIGHT BRACKET
token OPEN ROUND BRACKET
token CLOSED ROUND BRACKET
token PLUS
declaration: type identifier list SEMI COLON;
identifier list: IDENTIFIER | IDENTIFIER COMMA identifier list;
statement: declaration|simple stmt|struct stmt;
simple_stmt: assignment_stmt|io_stmt|return_stmt;
struct stmt: compound stmt|if stmt|while stmt;
assignment stmt: IDENTIFIER EQ expression;
return stmt: RAPORTEAZA IDENTIFIER | RAPORTEAZA CONSTANT;
io stmt: read stmt|print stmt;
CLOSED ROUND BRACKET;
print stmt: CITESTE OPEN ROUND BRACKET STD OUT COMMA IDENTIFIER
CLOSED ROUND BRACKET;
compound stmt: OPEN CURLY BRACKET statement list CLOSED CURLY BRACKET;
if stmt: simple if simple if else simple if else;
simple if: DACA OPEN ROUND BRACKET condition CLOSED ROUND BRACKET
compound stmt;
```

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else: EVENTUAL compound_stmt;
else_if: DACA_NU OPEN_ROUND_BRACKET condition CLOSED_ROUND_BRACKET
compound_stmt;
while_stmt: IN_TIMP_CE OPEN_ROUND_BRACKET condition CLOSED_ROUND_BRACKET
compound_stmt;
condition: expression RELATION expression;
expression: term|expression operator expression
term: IDENTIFIER|CONSTANT|IDENTIFIER OPEN_SQUARE_BRACKET INTREG
CLOSED_SQUARE_BRACKET;
operator: PLUS|MINUS|DIV|MUL|POWER|PERCENT;

%%

yyerror(char *s)
{
   printf("%s\n", s);
}
extern FILE *yyin;
main(int argc, char **argv)
{
   if (argc > 1)
      yyin = fopen(argv[1], "r");
      if ((argc > 2) && (!strcmp(argv[2], "-d")))
      yydebug = 1;
   if (!yyparse())
      fprintf(stderr,"\t CORRECT\n");
}
```