```
%union
            // what types will be used further
      struct _polynomial poly;
      struct monomial
                                mono;
      int
                                num;
      char *
                         str;
%type <str> variable
%type <poly>
                   polynomial
%type <mono>
                   monomial
%token <num>
                   DIGIT
                   LETTER PRINT
%token <str>
%left '+' '-'
%left '*'
%right UMINUS
%right '^'
%start list
%% // follows grammatics
list
            // empty
            list '\n'
            list '\r'
            list begin
begin:
            variable '=' polynomial '\n' |
            PRINT variable '\n'
            PRINTpolynomial '\n'
polynomial
            '(' polynomial ')'
            polynomial '+' polynomial
            polynomial '-' polynomial
            polynomial '*'polynomial
             '-' polynomial %prec UMINUS
            polynomial '^' DIGIT
            monomial
            variable
monomial
            DIGIT
            LETTER
            DIGIT LETTER
            LETTER '^' DIGIT
            DIGIT LETTER '^' DIGIT ;
variable
             '$' LETTER
%%
     // end's grammatics
```