Aynel Gül & Andrea van den Hooff Assignment 3 Compilerbouw 9 Maart 2018

ORIGINAL GRAMMAR

Expr -> ID | Expr + Expr | -Expr | Expr++ | Expr--

Assignment 11

Expr -> Expr + Term | Term Term -> -Term | Factor Factor -> Factor --| Factor ++ | ID

Assignment 12

Expr -> Term Expr' Expr' -> + Expr Expr' | epsilon

Term -> Factor Term'
Term' -> -Term Term'
| epsilon

Assignment 13

Start -> Expr

Expr -> Term Expr' Expr' -> + Expr Expr' | epsilon

Term -> Factor Term'
Term' -> - Term Term'
| epsilon

Factor -> ID Factor' Factor' -> ++ Factor' | -- Factor' | epsilon

```
Start() { return Expr() && (nextToken() == eof); }
Expr() { return Term() && ExprP(); }
ExprP() {
  token = nextToken();
  Switch(token) case (add) : return Expr() && ExprP();
  default:
    ungetToken(token);
Term() { return Factor() && TermP(); }
TermP() {
  token = nextToken();
  Switch(token) case (unarymin) : return Term() && TermP();
  default:
     ungetToken(token);
Factor() { Return(nextToken() == ID) && FactorP(); }
FactorP() {
  token = nextToken();
  Switch(token) case (incr): return FactorP();
  case (decr):
    return FactorP();
  default:
    ungetToken(token);
```