Projet compilation

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Introduction

Description des lexèmes

```
INITIAL STATE
     BLOC\_BEGIN \leftarrow \{\{
    {\rm TXT} \leftarrow \ [ \w|; |\&| <| >| "|_-|.| \|/| \| p|:|,| \ \t] +
IN STRING STATE
     APO \leftarrow,
    IN CODE STATE
     \mathrm{APO} \leftarrow \text{'}
     BLOC\_END \leftarrow \}
     FOR \leftarrow for
     \mathrm{IN} \leftarrow \mathrm{in}
     \mathrm{DO} \leftarrow \mathrm{do}
     \mathbf{ENDFOR} \leftarrow \mathbf{endfor}
     \mathrm{IF} \leftarrow \mathrm{if}
     ELSE \leftarrow else
     \mathbf{ENDIF} \leftarrow \mathbf{endif}
     PRINT \leftarrow print
     \mathrm{INTEGER} \leftarrow \backslash \mathtt{d+}
     \mathrm{ADD}_{-}\mathrm{OP} \leftarrow +|-
     \mathrm{MUL}_{-}\mathrm{OP} \leftarrow *|/
     PAR_FERM \leftarrow)
     PAR\_OUVR \leftarrow \textbf{(}
```

DOT COMMA \leftarrow ;

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```
\begin{aligned} & \text{DOT} \leftarrow. \\ & \text{ASSIGNEMENT} \leftarrow := \\ & \text{BOOLEAN} \leftarrow \text{true} | \text{false} \\ & \text{VAR} \leftarrow \lceil \backslash \mathbf{w} \rceil + \\ & \text{OPERATOR} \leftarrow < | \! > \! | \! = \! | \! ! \! = \\ & \text{BINOPERATOR} \leftarrow \text{or} | \text{and} \end{aligned}
```

Description de la grammaire

```
programme \leftarrow TXT \mid TXT programme
            programme \leftarrow dumboBloc \mid dumboBloc \ programme
            dumboBloc \leftarrow BLOC \ \ BEGIN \ expressionList \ BLOC \ \ END
            expressionList \leftarrow expressionDOT COMMA | expressionDOT COMMA expressionList
            expression \leftarrow variable N ASSIGNEMENT stringExpression | variable NASSIGNEMENT list
            expression \leftarrow PRINT stringExpression
            expression 
FOR variable IN list DO expressionList ENDFOR | FOR variable IN variable DO expression-
List ENDFOR
            \operatorname{expression} \leftarrow \operatorname{IF} \operatorname{boolean} \operatorname{DO} \operatorname{expressionList} \operatorname{ENDIF} | \operatorname{IF} \operatorname{boolean} \operatorname{DO} \operatorname{expressionList} \operatorname{ELSE} \operatorname{expressionList} \operatorname{ENDIF} |
            stringExpression \leftarrow integer \mid string \mid stringExpression DOT stringExpression
            list \leftarrow PAR \ OUVR \ stringListInterior \ PAR \ FERM \ | \ PAR \ OUVR \ integer ListInterior \ PAR \ FERM
            stringListInterior ← string | string COMMA stringListInterior
            integerListInterior ← integer | integer COMMA integerListInterior
            variable \leftarrow VAR
            variableN \leftarrow VAR
            string \leftarrow APO STRING APO
            integer \leftarrow integer Var \mid variable \mid integer ADD \mid OP \mid integer \mid integer MUL \mid OP \mid in
            integerVar \leftarrow INTEGER
```

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boolean \leftarrow boolean
Var | boolean OP | boolean BINOPERATOR boolean
 boolean OP \leftarrow integer OPERATOR integer
 boolean Var \leftarrow BOOLEAN

Gestion du if et du for

Difficultés rencontrées