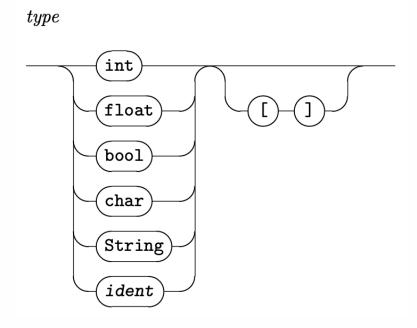
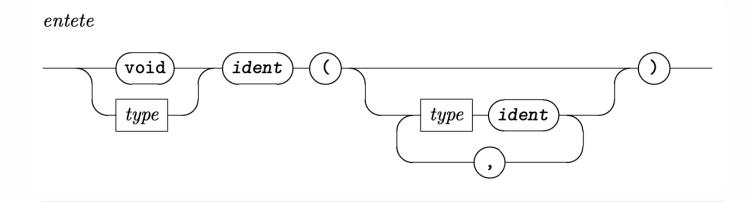
TP2: L'analyseur Sémantique

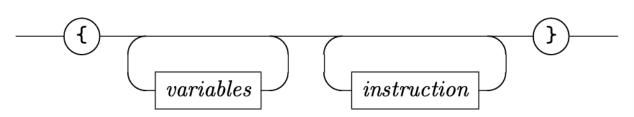
parserJava.mly

entete :





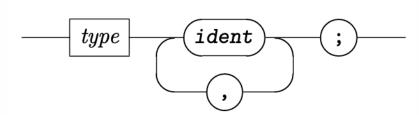
corps



```
bloc :
    ACCOUV variables instructions ACCFER
      { (print endline "bloc : ACCOUV variables instructions ACCFER");
        (print_string "Nombre de variables = ");
        (print_int $2); /* variables */
        (print_newline ())
      }
variables :
    /* Lambda, mot vide */
      { (print endline "variables : /* Lambda, mot vide */");
        0
    variable /* $1 */ variables /* $2 */
      { (print_endline "variables : variable variables");
        ($2 + 1)
      }
instructions :
    /* Lambda, mot vide */
      { (print_endline "instructions : /* Lambda, mot vide */") }
    | instruction instructions
```

```
{ (print_endline "instructions : instruction instructions") }
```

variables

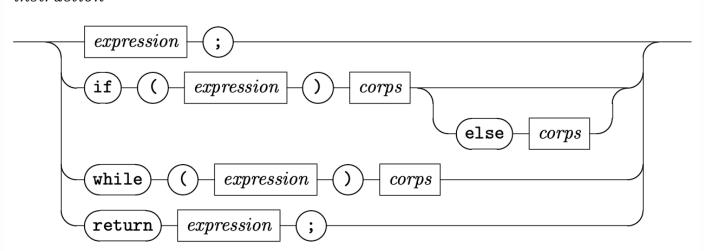


```
variable :
    typeStruct IDENT PTVIRG
    { (print_endline "variable : typeStruct IDENT PTVIRG") }

/* 我自己添加的: 例如 int i = 1; 上一行不能有 "=1" 这种赋值情况存在
    只能写成如下形式:
        int i;
        i = 1;

*/
        typeStruct IDENT binaire expression PTVIRG
        { (print_endline "variable : typeStruct IDENT binaire expression PTVIRG") }
```

instruction



```
instruction :
    expression PTVIRG
        { (print_endline "instruction : expression PTVIRG") }

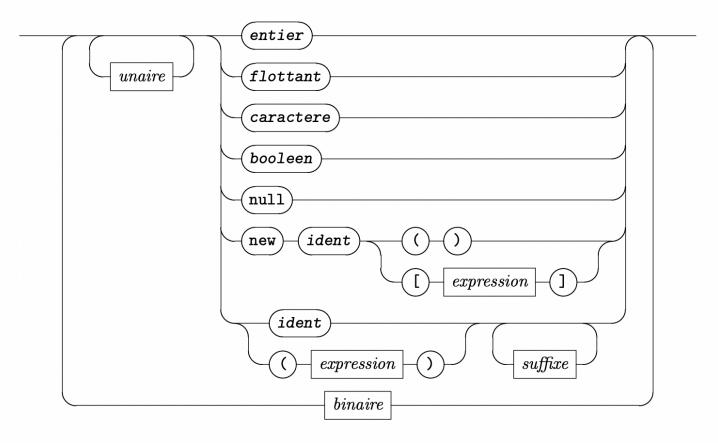
| SI PAROUV expression PARFER bloc
        { (print_endline "instruction : SI PAROUV expression PARFER bloc") }

| SI PAROUV expression PARFER bloc SINON bloc
        { (print_endline "instruction : SI PAROUV expression PARFER bloc SINON bloc") }

| TANTQUE PAROUV expression PARFER bloc
        { (print_endline "instruction : TANTQUE PAROUV expression PARFER bloc") }

| RETOUR expression PTVIRG
        { (print_endline "instruction : RETURN expression PTVIRG") }
```

expression

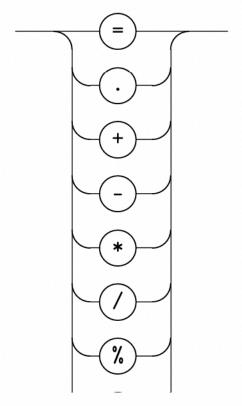


```
expression :
    unaires part_expression
    { (print_endline "expression : unaires part_expression") }
    | unaires part_expression binaire expression
        { (print_endline "expression : unaires part_expression binaire expression") }

unaires :
    /* Lambda, mot vide */
        { (print_endline "unaires : /* Lambda, mot vide */") }
    | unaire unaires
        { (print_endline "expressionvirgule : VIRG expression expressionvirgule") }
```

```
part_expression :
   ENTIER { (print_endline "part_expression : ENTIER") }
  | FLOTTANT { (print_endline "part_expression : FLOTTANT") }
  CARACTERE { (print_endline "part_expression : CARACTERE") }
  | BOOLEEN { (print_endline "part_expression : BOOLEEN") }
  | VIDE { (print_endline "part_expression : VIDE") }
  NOUVEAU IDENT PAROUV PARFER
      { (print_endline "part_expression : NOUVEAU IDENT PAROUV PARFER") }
  | NOUVEAU IDENT CROOUV expression CROFER
      { (print_endline "part_expression : NOUVEAU IDENT CROOUV expression CROFER") }
  | IDENT suffixes { (print_endline "part_expression : IDENT suffixes") }
  PAROUV expression PARFER suffixes
     { (print_endline "part_expression : PAROUV expression PARFER suffixes") }
suffixes :
 /* Lambda, mot vide */ { (print_endline "suffixes : /* Lambda, mot vide */") }
  | suffixe suffixes { (print_endline "suffixes : suffixe suffixes") }
```

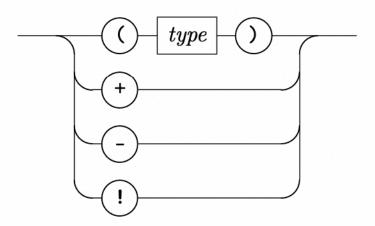
binaire



```
binaire :
    ASSIGN { (print_endline "binaire : ASSIGN") }
    | OPINF { (print_endline "binaire : OPINF") }
    | OPSUP { (print_endline "binaire : OPSUP") }
    | OPINFEG { (print_endline "binaire : OPINFEG") }
```

```
OPSUPEG { (print_endline "binaire : OPSUPEG") }
OPEG { (print_endline "binaire : OPEG") }
OPNONEG { (print_endline "binaire : OPNONEG") }
OPPLUS { (print_endline "binaire : OPPLUS") }
OPMOINS { (print_endline "binaire : OPMOINS") }
OPOU { (print_endline "binaire : OPOU") }
OPMULT { (print_endline "binaire : OPMULT") }
OPMOD { (print_endline "binaire : OPMOD") }
OPDIV { (print_endline "binaire : OPDIV") }
OPET { (print_endline "binaire : OPET") }
OPNON { (print_endline "binaire : OPNON") }
OPPT { (print_endline "binaire : OPNON") }
OPPT { (print_endline "binaire : OPPT") }
```

unaire



```
unaire :
    PAROUV typeBase PARFER { (print_endline "unaire : PAROUV typeBase PARFER") }
| OPPLUS { (print_endline "unaire : OPPLUS") }
| OPMOINS { (print_endline "unaire : OPMOINS") }
| OPNON { (print_endline "unaire : OPNON") }
```

suffixe

