BNF for miniRA.jj

```
      Goal ::= "MAIN" "[" IntegerLiteral "]" "[" IntegerLiteral "]"
               "[" IntegerLiteral "]" StmtList "END" ( SpillInfo )? ( Procedure )* <EOF>
  StmtList ::= ( ( Label )? Stmt )*
 Procedure ::= Label "[" IntegerLiteral "]" "[" IntegerLiteral "]"
               "[" IntegerLiteral "]" StmtList "END" ( SpillInfo )?
      Stmt ::= NoOpStmt
             | ErrorStmt
             | CJumpStmt
             | JumpStmt
             | HStoreStmt
             | HLoadStmt
             | MoveStmt
             | PrintStmt
             | ALoadStmt
             | AStoreStmt
             | PassArgStmt
             | CallStmt
  NoOpStmt ::= "NOOP"
 ErrorStmt ::= "ERROR"
 CJumpStmt ::= "CJUMP" Reg Label
  JumpStmt ::= "JUMP" Label
HStoreStmt ::= "HSTORE" Reg IntegerLiteral Reg
 HLoadStmt ::= "HLOAD" Reg Reg IntegerLiteral
  MoveStmt ::= "MOVE" Reg Exp
 PrintStmt ::= "PRINT" SimpleExp
 ALoadStmt ::= "ALOAD" Reg SpilledArg
AStoreStmt ::= "ASTORE" SpilledArg Reg
PassArgStmt ::= "PASSARG" IntegerLiteral Reg
  CallStmt ::= "CALL" SimpleExp
       Exp ::= HAllocate
             | BinOp
             | SimpleExp
  HAllocate ::= "HALLOCATE" SimpleExp
     BinOp ::= Operator Reg SimpleExp
  Operator ::= "LE"
             | "NE"
             | "PLUS"
             | "MINUS"
             | "TIMES"
```

```
                      |   "DIV"
     SpilledArg ::= "SPILLEDARG" IntegerLiteral
     SimpleExp ::= Reg
                      |   IntegerLiteral
                      |   Label
            Reg ::= "a0"
                      |   "a1"
                      |   "a2"
                      |   "a3"
                      |   "t0"
                      |   "t1"
                      |   "t2"
                      |   "t3"
                      |   "t4"
                      |   "t5"
                      |   "t6"
                      |   "t7"
                      |   "s0"
                      |   "s1"
                      |   "s2"
                      |   "s3"
                      |   "s4"
                      |   "s5"
                      |   "s6"
                      |   "s7"
                      |   "t8"
                      |   "t9"
                      |   "v0"
                      |   "v1"
 IntegerLiteral ::= <INTEGER_LITERAL>
          Label ::= <IDENTIFIER>
     SpillInfo ::= "//" SpillStatus
   SpillStatus ::= <SPILLED>
                      |   <NOTSPILLED>
```