Language of expressions

datatype exp = ARITH of arithop * exp * exp
  | CMP of relop * exp * exp
  | LIT of int
  | IF of exp * exp * exp

and arithop = PLUS | MINUS | TIMES | ...
and relop = EQ | NE | LT | LE | GT | GE

datatype ty = INTTY | BOOLTY
Extended language of expressions

datatype exp = ARITH of arithop * exp * exp
  | CMP of relop * exp * exp
  | LIT of int
  | IF of exp * exp * exp
  | VAR of name
  | LET of name * exp * exp

and arithop = PLUS | MINUS | TIMES | ...

and relop = EQ | NE | LT | LE | GT | GE

datatype ty = INTTY | BOOLTY