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