Creating Java Objects

(import java.util.*)
(bind ?a (new Date))

;; first way
(call ?a toString)

;; second way
(bind ?c (get-member System out))
(call ?c println ?a)

Calling Methods on Java Objects

(bind ?ar (new java.util.ArrayList))
(call ?ar add "aa")
(call ?ar add "bb")
(call ?ar add "cc")
(call ?ar add "dd")
(call ?ar add "ee")
(printout t (call ?ar get 4) crlf)
(printout t (call ?ar get 3) crlf)
(printout t (call ?ar get 2) crlf)
(printout t (call ?ar get 1) crlf)
(printout t (call ?ar get 0) crlf)

Calling user defined Java code

(bind ?m (new MyCode "pass"))
(call ?m printInfo)

Jess Lists

(deffunction length (?a)
  (bind ?count 0)
(foreach ?e ?a
  (bind ?count (+ ?count 1)))

(return ?count))

Manipulating Jess Lists

(deffunction partition (?a ?b)
  ;; create two lists to hold the even and odd numbers respectively
  (bind ?even-list (create$))
  (bind ?odd-list (create$))

  (foreach ?e ?a
    (if (eq (mod ?e 2) 0) then
      ;; insert even number into even-list
      (bind ?even-list (insert$ ?even-list
        (+ (length$ ?even-list) 1) ?e)))
    else
      ;; insert odd number into odd-list
      (bind ?odd-list (insert$ ?odd-list
        (+ (length$ ?odd-list) 1) ?e))))

  (foreach ?e ?b
    (if (eq (mod ?e 2) 0) then
      ;; insert even number into even-list
      (bind ?even-list (insert$ ?even-list
        (+ (length$ ?even-list) 1) ?e)))
    else
      ;; insert odd number into odd-list
      (bind ?odd-list (insert$ ?odd-list
        (+ (length$ ?odd-list) 1) ?e))))

  ;; print results
  (printout t "even list: " ?even-list crlf)
  (printout t "odd list: " ?odd-list crlf))