Exercise 1 (individual assignment)  (30 points) Please do Exercise 7.1 on page 170 in the textbook.

Exercise 2 (individual assignment)  (30 points) Please do Exercise 7.2 on page 170 in the textbook.

Exercise 3 (group assignment)  (100 points) Please implement a package for translating Tiger programs into the tree representation mentioned in the textbook.

Exercise 4 (group assignment)  (40 points) Please implement a package for translating a Tree into canonical form. You need to implement all the functions in the following signature CANON:

signature CANON =
  sig
    val linearize: Tree.stm -> Tree.stm list
    val basicBlocks: Tree.stm list -> (Tree.stm list list * Temp.label)
    val traceSchedule: Tree.stm list list * Temp.label -> Tree.stm list
  end