

BU CAS CS 525 (SPRING SEMESTER, 2009)  
COMPILER DESIGN

## Assignment 8

Out: Thursday, 02 April 2009

Due: Thursday, 09 April 2009

Total: 75

**Exercise 1 (individual assignment)** (40 points) Please do Exercise 8.1 on page 184 in the textbook.

**Exercise 2 (individual assignment)** (10 points) Please do Exercise 8.2 on page 185 in the textbook.

**Exercise 3 (group assignment)** (25 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
```