Test 5

The fifth test will be 75 minutes, will consist of two parts and will take place next week.

The programming part will be about recursion. You will be asked to implement two recursive methods. This part will be worth 50%. If your code does not compile, you get a 50% penalty (that is, your score for the programming part will be divided by 2 if your code does not compile).

The "written" part will be about recursion (prove correctness and termination (15% each), determine the recurrence relation (5%) and a big-O proof (15%)).

During the test, you will have access to the textbook. You may bring a blank piece of paper to the test.

Chapter 7: Recursion

EECS 1030

moodle.yorku.ca

Sorting

```
public static void sort(List<Integer> list)
```

- selection sort
- insertion sort
- merge sort
- quick sort

fromString

```
/**
 * Returns the expression represented by the given string.
 *
 * @param expression string representation of an expression.
 * @return the expression represented by the given string.
 * @throws Exception if the given string does not represent
 * an expression.
 */
public static Expression fromString(String expression)
  throws Exception
```