

\_\_\_\_\_/100 pts.

Name \_\_\_\_\_

Student number \_\_\_\_\_

## CS 2SC3 and SE 2S03 Fall 2008

### Programming Exercise 4 Part A

#### Marking Scheme

Instructor: William M. Farmer

Revised: 14 November 2008

#### (1) Code

- (a) Files are present \_\_\_\_\_/10 pts.
- (b) Program compiles \_\_\_\_\_/10 pts.
- (c) Program runs \_\_\_\_\_/10 pts.
- (d) Program prints test results \_\_\_\_\_/10 pts.

#### (2) Design and Implementation of Program

- (a) Type `nat` implemented as `int` \_\_\_\_\_/4 pts.
- (b) Type `element` implemented as a type of records \_\_\_\_\_/4 pts.
- (c) The length of a queue is unbounded \_\_\_\_\_/4 pts.
- (d) Type `queue` implemented as a type of records  
that reference a linked list representing a queue \_\_\_\_\_/8 pts.
- (e) The constructor `bottom` \_\_\_\_\_/4 pts.
- (f) The selector `length` \_\_\_\_\_/4 pts.
- (g) The selector `front` \_\_\_\_\_/4 pts.
- (h) The mutator `push` \_\_\_\_\_/4 pts.
- (i) The mutator `pop` \_\_\_\_\_/4 pts.

#### (3) Testing

- (a) Choice of test inputs. \_\_\_\_\_/10 pts.
- (b) Quality of print out of test results \_\_\_\_\_/10 pts.

#### (4) Style (comments only)

#### (5) Penalties

- (a) Missing or substandard log file \_\_\_\_\_/-10 pts.
- (b) Late \_\_\_\_\_/-100 pts. per day