Assignment 3 (Programming)
Due Date: 27th February, 2003

This programming assignment requires you to write two programs.

- Write a java class for reader-writer problem that is free from starvation. Your class should provide the following methods: startRead, endRead, startWrite, and endWrite. Use this class to synchronize multiple readers and writers that access a shared array of strings.

- Write a wait-free class BankAccount. Any object of type BankAccount has two values stored: checkingBal and savingBal. First, write the class such that it allows a single thread to call the following methods: totalBalance and xferFromChecking. Then, using cmpNswap make it thread safe. Build atomic cmpNswap using synchronized.