

**Cosc 4740**  
**Written Q18**

Worth 15 points

*All answers are to be typed. This is **NOT** a programming assignment, no compiler needed, which also means it is due at class time.*

A process has 4 frames in memory it can use and 5 pages of virtual memory. Using demand paging and the following page replacement algorithms show what pages will be replaced and the number of pages faults.

Use the following page reference string: 1, 2, 3, 4, 1, 4, 5, 1, 2, 1, 2, 3, 4, 5

- a. First-In-First-Out
- b. Least Recently Used
- c. optimal