

Cosc 4740
Written Q16

Worth 20 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.*

you must write out all the work to get full points. Answers of just yes and/or no, will receive zero points

Bankers algorithm

| | Allocation | Max | Available |
|----|------------|---------|-----------|
| | A B C D | A B C D | A B C D |
| P0 | 0 0 1 2 | 0 0 1 2 | 1 5 2 0 |
| P1 | 1 0 0 0 | 1 7 5 0 | |
| P2 | 1 3 5 4 | 2 3 5 6 | |
| P3 | 0 6 3 2 | 0 6 5 2 | |
| P4 | 0 0 1 4 | 0 6 5 6 | |

A. What is the content of the Matrix Need?

B. Is the system in a safe state?

C. If a request from P1 arrives for (0,4,2,0), can the request be granted immediately?