**Introduction to Operating Systems**

**COP 4600**

Name and ID \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Worksheet #6**

Q1. To protect the critical region of two processes, a programmer implemented the code. His implementation is shown below in pseudocode

**For process P2 For process P1**

**Repeat**

**Critical section**

**Reminder section**

**Until false**

**Repeat**

flag[1] = true

turn = 1

while (flag[2] && turn ==2);

flag[2] = true

turn = 2

while (flag[1] && turn ==1);

**Critical section**

flag[1] = false

flag[2] =false

**Reminder section**

**Until false**

**Would the solution above guarantee MUTUAL EXCLUSION? Explain your answer.**