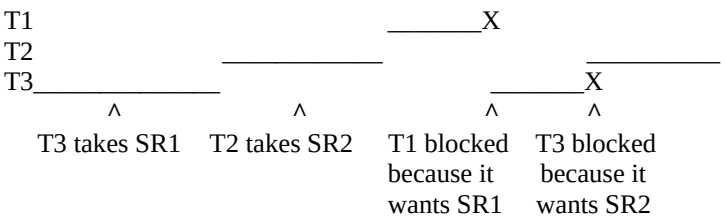
Assignment 8

Priorites for tasks T1, T2, and T3 are as follows: $P_{T3} > P_{T2} > P_{T1}$
T1 and T3 make use of shared resource 1 (SR1)
T2 and T2 make use of shared resource 2 (SR2)
Assume Round-Robin scheduling



1)After T3 is blocked, what happens after T2's normal timeslot is completed?

2)Over what time interval is there unbounded priority inversion in the above diagram.

3)Does Priority Inheritance Protocol solve the unbounded priority inversion problem here? Why?

4)If T3 also takes SR2 when it took SR1 above, explain what Priority Ceiling Protocol would do for you.

5)In question 4, what would it make a difference if T3's priority was less than the other two tasks? Why?