PO , P1

When po executes p1 wait for complete its execution

Jab po apnay critical section k andar ho aur usay execute kar raha ho to p1 apnay critical section k code ko execute nahi kar sakta

(Mutual exclusion)

Aisa nahi hona chhahiye k po khud to apnay critical section m enter nahi hona chahata aur jo dusre process yani p1 usko b apnay critical section m enter honay nahi de raha usay roak raha hai k wo apnay critical section ka code execute yan na to po ka critcal section aur na hi p1 ka critical section chal raha hai

Yani koi progress nahi ho rahi ye sahi nahi hai progress lazmi honi chahiye (Progress)

Lets assume po runs first,second third

Po1,2,3,4,5,….Infinity

P1 ?? wait for its turn waiting should not be unlimited each process must have a equal/some chance even after wait to execute at least once its critical section (bounded waiting)

Po 1,2,3,4,5,…1000,1001…….100000

P1 =1,2

Software based solution

Po P1

Turn=0;

While(1) while(1)

{ {

While(turn!=1) while(turn !=0){

Execute critical section; Execute critical section;

Turn=1; Turn=0;

Remainder section Remainder section

} }

What if Po never wants to execute its critical section

1. Progress violate
2. Bounded waiting violate

Solution : Peterson Code;

Actual Code



