#include<stdio.h>

#include<pthread.h>

#include<semaphore.h>

#include<unistd.h>

sem\_t mutex;

void\* thread(void \*arg){

//wait

sem\_wait(&mutex);

printf("\nEntered....\n");

//Critical Section

sleep(4);

//Signal

printf("\nJust Exiting\n");

sem\_post(&mutex);

}

int main(){

sem\_init(&mutex,0,1);

pthread\_t t1,t2;

pthread\_create(&t1,NULL,thread,NULL);

sleep(2);

pthread\_create(&t2,NULL,thread,NULL);

pthread\_join(t1,NULL);

pthread\_join(t2,NULL);

sem\_destroy(&mutex);

return 0;

}