

In-Class Problems: Semaphores to CVs

Global Variables	Initialization	Function func1	Function func2
<pre>struct semaphore *sa; struct semaphore *sb; struct semaphore *sc;</pre>	<pre>sa = sem_create("A",1); sb = sem_create("B",1); sc = sem_create("C",0);</pre>	<pre>void func1() { P(sa); funcA(); V(sa); P(sc); }</pre>	<pre>void func2() { P(sb); funcB(); V(sb); V(sc); }</pre>

Re-implement `func1` and `func2`, from the program above, using locks and condition variables instead of semaphores. In addition to locks and condition variables, you can define and use other global variables.