CS350   Operating Systems

In-Class Problems: Semaphores to CVs

Global Variables	Initialization	Function `func1`	Function `func2`

`struct semaphore *sa;`
`struct semaphore *sb;`
`struct semaphore *sc;`
	`sa = sem_create("A",1);`
	`sb = sem_create("B",1);`
	`sc = sem_create("C",0);`
		`void func1() {`
		`P(sa);`
		`funcA();`
		`V(sa);`
		`P(sc);`
		`}`
			`void func2() {`
			`P(sb);`
			`funcB();`
			`V(sb);`
			`V(sc);`
			`}`

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.