G53OPS

Exercise: Peterson's Solution

Peterson's Solution Algorithm

```
int No_Of_Processes;
int turn;
int interested[No_Of_Processes];

void enter_region(int process) {
     int other;
     other = 1 – process;
     interested[process] = TRUE;
     turn = process;
     while(turn == process && interested[other] == TRUE);
}
void leave_region(int process) {
     interested[process] = FALSE;
}
```

Question

Using Peterson's algorithm work out what will happen, given the following sequence. Assume that we are only interested in controlling two processes.

- A process, P_0, starts and calls enter_region. Assume no other processes are running
- Once P_0 is in its critical region what happens if another process, P_1, starts and calls enter_region
- P_0 calls leave_region

Answer/Notes