

1. Show Peterson's solution for the given scenario.
 - There are two processes: P_0 and P_1 .
 - Each Statement takes 4 ms to execute.
 - Context Switch will occur after 8 ms.
 - Critical section contains 2 statements.
 - Remainder section contains 4 statements.
 - For P_0 : $i=0$ and $j=1$
 - For P_1 : $i=1$ and $j=0$
 - $turn=0$
 - $flag[0] = TRUE, flag[1] = FALSE$

The structure of process P_i in Peterson's solution:

```
do{
    flag[i] = true;
    turn = j;
    while(flag[j] == true && turn == j){
        //busy wait
    }
    //critical section
    flag[i] = false;
    //remainder section

}while(true);
```

Complete the table given below for processes P_0 and P_1 using Peterson's solution.

Process 0: $i=0, j=1$	Process 1: $i=1, j=0$



2. Show Peterson's solution for the given scenario.
 - There are two processes: P_1 and P_2 .
 - Each Statement takes 3 ms to execute.
 - Context Switch will occur after 15 ms.
 - Critical section contains 6 statements.
 - Remainder section contains 10 statements.
 - For P_1 : $i=1$ and $j=0$
 - For P_2 : $i=0$ and $j=1$
 - $turn=0$
 - $flag[0] = FALSE, flag[1] = TRUE$

The structure of process P_i in Peterson's solution:

```
do{
    flag[i] = true;
    turn = j;
    while(flag[j] == true && turn == j){
        //busy wait
    }
    //critical section
    flag[i] = false;
    //remainder section
}while(true);
```

Complete the table given below for processes P_1 and P_2 using Peterson's solution.

Process 1: $i=1, j=0$	Process 2: $i=0, j=1$


