Course: Operating System

Class Activity

Date: 20/03/2025

P₀

```
while (true) {
  flag[i] = true;
  turn = j;
  while (flag [j] && turn == j);

/* critical section */
  flag[i] = false;

/* remainder section */
}
```

P1

```
while (true) {
  flag[j] = true;
  turn = i;
  while (flag [i] && turn == i);

/* critical section */
  flag[j] = false;

/* remainder section */
}
```

Dry-Run Table:

Fill in the values of turn, flag [i], and flag [j] at each step. Track when each process enters and exits the critical section.

Stop	Process	Action	turn	flag(i)	flag(j)	Remarks
1	P0	flag[i] = true				
2	P0	turn = j				
3	P0	Check flag[j] && turn==j				
4	P1	flag[j] = true				
5	P1	turn = i				
6	P1	Check flag[i] && turn==i				
7		Enters critical section				
8		Exits critical section				
9		Enters critical section				
10		Exits critical section				

- 1,000	P. Va									
DRYKU	N For P	PETERSON :- CO	ode sou	me as p	prentous	page. Pr / Pr				
step	Process	Action	turn	flag[i]	flag(j.)	remarks.				
1	Po	flag[i]=true	Po (i)	true	false	Po sets lifting to true.				
2	Po	brum=1	1	true	false	Turn assigned to 11.				
3	Po	Check Pag[j] ll turn==j	֓֞֞֜֜֜֜֜֜֜֜֜֜֜֜֓֓֓֓֓֓֓֓֓֜֜֜֜֜֜֜֓֓֓֓֓֓֜֜֜֜֜֜	true	false	true & false - False - entercs =				
Ч	P1	flag[j]=true	3	true	true	P1 sets its frag to true				
2	P1	tumzi	9	true	true	Turn assigned to lo				
C	P1	chech flag(i) leturn=2	ĩ	true	true	true bil true -> True -> busy writing				
7	Po	Extens critical section		true	true	Po exists, resets Hag[i] = Palse				
8	Po	Exits critical section	î	false	true	Po entere critical cection =				
9	192	Enteu critical section	ĩ	false	true	Pr enters critical section				
10	1 1/2	Exits critical section	ຳ	false	false	PI exists, resets flag[j] = false.				
			Annual Control of the	NAME OF TAXABLE PARTY.	NAME OF THE OWNER, WHEN PERSON AND PARTY OF THE OWNER,	La monte experience company of the contract of				

Y