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334- Midtern I

```
1) Task P

ii) Task R

iii) Task Q

1-b) OD exit(22) FF

cc exit(11)

AA BB Status FF
```

```
2) int fd[2];

pipe (fd);

int pid = fork();

int f = open ("nurlical 1 bin", OLEDONLY);

dup 2 ( fd[1], 1);

dup 2 ( f, 0);

close (fd[0]; close (fd[1]); close(f);

exec ( [ "gnuplot ", "plot", "sin (u)"]);

3 else {

close (fd[1]);
```

## GURHAN ILHAN ADIGÜZEL ZULBOZS 3-a) void hReody() { mutex wait(); count t+; signal (mutex); if ( count < 2) { wait (hwait); } else if (count == 2) { signal (hwait); 3 signal (oWait); }

void of early () {

mutex. unit();

unit (a units);

make Water ();

count -= 2;

signal (mutex);

3-6) No.

4-0)		Need						
		RI	IR.	R	3 Ru			
	PI	0	0	2	0	7		
	P2	0	7	5	0	7		
	P3	6	6	2	2			
L	Py	2	0	0	2			
	Ps	0	3	2	0			
_		-						

It is a safe system

because as we shown there is

a safe system like < P1, P4, P5, P2, P37

which has no problem occurred.

## GÜRHAN ILHAN ADIGÜZEL 244 8025

	PI	R2	R3	Ru
4-c)	2	1	2	0

At the start, available - system values like this.

If  $P_1$  request from process arrives for (0,4,2,0), the request cannot immediately granted because there is no enough space in  $L_2$ .

4-2)	121	22	R3	Ry
., 0)	12	١	3	2

After P1 executes, availables system values like this.

If P2 request from process arrives for (0,1,2,0),

the request can be immediately granted because there is

enough space in available resource system.