In qs 1 part iii Process P3 requests 2 C resouces instead of 4 C resources. Correct the qs. 1)

Consider the following information about resource usage:

	Alle	ocat	<u>ion</u>	1	Max	<u> </u>	<u>Available</u>			
	Α	В	C	Α	В	C	Α	В	C	
P_0	1	2	1	8	5	1	5	0	5	
P_1	1	2	1	1	9	1				
P_2	1	2	1	2	4	4				
P_3	1	2	1	3	3	9				
P ₄	1	2	1	4	2	2				

Using the Banker's Algorithm:

- i. Demonstrate that the system is in a safe state.
- ii. Demonstrate that the system would not be in a safe state if a request for four C resources was granted to P_3 .
- iii. If process P₃ were to request four C resources, as suggested in (ii), the system would not deadlock. Explain.

	Allacation Max Available Need												
	Alla	ca	tran		1	Lax	Ac	will	able	N	red		
	1	_					5		5	t	3	0)0	
	1 :			1	9	1	6	2	6			0 100	
	1 '			2	4	4	7	4	7			3 / 6	
	1		1	0.00	3		To the	6		2	1	8 /	
P. Della			1	4	2	2	9	8	9	3	0	1.0	
,4	1						10	10	10.				
baje sequence: « Post Pass Post ?													
					P4.	-> P.	2 -> 1	0 7	P3 ->	P1			

When P3 requests 4 c reservices,

suquest (0.0,4) < Auntiable (5.0,5).

the fathering new repairer alexanten table.

	Jaco	lacad	ten	1	me	ex	1 4	uall	able	1	Need		
-	A	6	c	A	B	0	A	B	C	4	8	c	
Po	1	2	1	8	5	1	5	0	1	7	3	00	
P.	1	2	1	11	9	1	6	2	2	0	7	0	
PI	1	2	1	12	4	4	7	14	BI	1	2	30	
P2	1	2	5	13	3	9	18/	06	14	2	1	4-	
Pul	4	0	1	4	2	2	19/	8/	19/	3	0	1.	
P41	1	2	1	14	2	2	10	10	110.	1			

As the pure that there can be a bake beginner, when P's requests for an additional 40 secretary, the superior of the sequences, the sequences are an additional 40 separations, the sequences the sequences, the sequences are superior decided not deadlack, such after the request to granted.

Bo the sesawres shall not be granted.

-x-

Alter a request for 20 seconces to granted to.
B. Its requirement becomes \$1,2,3>. actions to

another an request \$0,0,2> to less than
another \$5,0,5> so the request to accepted.

Pracus	8	Maca	tlan		Ma	×1	dunilable Need						
	A	8	e	A			A	В	c			c	
Po	1	2	1	8	5	1	5	0	3	7	3	0	
PI	1	2	1	1	9	1	6	9	4	10	7	0	
P2	1	2	1	2	4	4	7	4	5	1		3	
P3	1	2	3	3	3	9	8	6	6	2	1		
	1	2	1	4	2	2	9	8	9	18			
							10	10	10				
bale	20	0		1			1			1			

baje sequence:

P4 - P2 -> Po -> P3 -> P1

Need for P4 to 13,0,1> which to leas than the available resources 15,0,3. be the need for P4 to completed and its resources are deallerated timelarly the bie that P2, Po, P3 and P1 can be executed tequentially suithout deadlack.