In this problem, you will apply the Bankers algorithm. You are given the following maximum claim matrix and the current resource allocation matrix.

Maximum Claim				
	A	В	С	
P0	7	4	4	
P1	4	2	2	
P2	10	0	2	
P3	1	2	2	
P4	3	3	3	

Current Resource Allocation				
	A	В	С	
P0	0	1	0	
P1	3	0	2	
P2	3	0	2	
P3	1	1	1	
P4	0	0	2	

Remaining Needs			
	A	В	С
P0	7	3	4
P1	早	2	0
P2	7	0	0
P3	0	1	1
P4	3	3	1

Total System Resources			
A	В	С	
10	4	7	

a. Determine the remaining needs of each process for each resource and then show if the system is in a safe state. Assume that each process will request its maximum resource needs.

b. Starting with the given initial state, if Process P2 makes a request for 2 resources of type A, should the resource request be granted if we want to prevent deadlocks? Show your work.

Revised needs
PO 7 3H
PI 20
PZ 5 00
PZ 5 011
PH 3 31

from here it proceeds
as above

.. the request can be safely granted