

There are 5 processes A, B, C, D, E and 4 resource types R1, R2, R3 and R4. R1 has 7 instances, R2 has 11 instances, R3 has 9 instances and R4 has 8 instances. The allocation and max matrices are given below now use banker's algorithm to find a safe sequence to avoid deadlock.

Snapshot at time  $T_0$ :

<u>Process</u>	<u>Allocation</u>	<u>Max</u>
	<i>A B C D</i>	<i>A B C D</i>
$P_A$	2 3 0 1	3 5 4 2
$P_B$	0 1 1 2	5 1 3 2
$P_C$	3 2 0 0	3 7 2 0
$P_D$	0 1 3 2	4 1 3 6
$P_E$	0 1 1 0	0 6 2 6