

Name: Uday Saha

ID : 23341134

	Allocated				Max				Available				Need			
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
✓ P ₀	0	1	1	0	0	2	1	0	1	5	2	0	0	1	0	0
✓ P ₁	1	2	3	1	1	6	5	2	1	6	3	0	0	4	2	1
✓ P ₂	1	3	6	5	2	3	6	6	1	2	6	2	1	0	0	1
✓ P ₃	0	6	3	2	0	6	5	2	1	2	7	6	0	0	2	0
✓ P ₄	0	0	1	4	0	6	5	6	2	14	10	7	0	6	4	2
									3	17	16	12				

P₀ → 0 1 0 0 ≤ 1 5 2 0 → Execute P₀

P₁ → 0 4 2 1 > 1 6 3 0 → Dont execute

P₂ → 1 3 0 1 > 1 6 3 0 → Dont execute

P₃ → 0 0 2 0 ≤ 1 6 3 0 → Execute P₃

P₄ → 0 6 4 2 ≤ 1 12 6 2 → Execute P₄

P₁ → 0 4 2 1 ≤ 1 12 7 6 → Execute P₁

P₂ → 1 0 0 1 ≤ 2 14 10 7 → Execute P₂

Therefore, it is in a safe state. The

safe sequence : $\langle P_0, P_3, P_4, P_1, P_2 \rangle$