

	R1	R2	R3		R1	R2	R3		R1	R2	R3
P1	3	2	2	P1	1	0	0	P1	2	2	2
P2	6	1	3	P2	6	1	2	P2	0	0	1
P3	3	1	4	P3	2	1	1	P3	1	0	3
P4	4	2	2	P4	0	0	2	P4	4	2	0
Claim matrix C				Allocation matrix A				C - A			

R1	R2	R3	R1	R2	R3
9	3	6	0	1	1
Resource vector R			Available vector V		

(a) Initial state

	R1	R2	R3		R1	R2	R3		R1	R2	R3
P1	3	2	2	P1	1	0	0	P1	2	2	2
P2	0	0	0	P2	0	0	0	P2	0	0	0
P3	3	1	4	P3	2	1	1	P3	1	0	3
P4	4	2	2	P4	0	0	2	P4	4	2	0
Claim matrix C				Allocation matrix A				C - A			

R1	R2	R3	R1	R2	R3
9	3	6	6	2	3
Resource vector R			Available vector V		

(b) P2 runs to completion

	R1	R2	R3		R1	R2	R3		R1	R2	R3
P1	0	0	0	P1	0	0	0	P1	0	0	0
P2	0	0	0	P2	0	0	0	P2	0	0	0
P3	3	1	4	P3	2	1	1	P3	1	0	3
P4	4	2	2	P4	0	0	2	P4	4	2	0
Claim matrix C				Allocation matrix A				C - A			

R1	R2	R3	R1	R2	R3
9	3	6	7	2	3
Resource vector R			Available vector V		

(c) P1 runs to completion

	R1	R2	R3		R1	R2	R3		R1	R2	R3
P1	0	0	0	P1	0	0	0	P1	0	0	0
P2	0	0	0	P2	0	0	0	P2	0	0	0
P3	0	0	0	P3	0	0	0	P3	0	0	0
P4	4	2	2	P4	0	0	2	P4	4	2	0
Claim matrix C				Allocation matrix A				C - A			

R1	R2	R3	R1	R2	R3
9	3	6	9	3	4
Resource vector R			Available vector V		

(d) P3 runs to completion

Figure 6.7 Determination of a Safe State