Deadlock Avoidance

The Banker's Algorithm for Multiple Resources

Process	Tape drives	Plotters	Scanners	CD ROMs
A	3	0	1	1
B	0	1	0	0
C	1	1	1	0
D	1	1	0	1
E	0	0	0	0

Resources assigned

Process	Tape drives	Plotters	Scanners	CD ROMs
A	1	1	0	0
B	0	1	1	2
C	3	1	0	0
D	0	0	1	0
E	2	1	1	0

Resources still needed

$E = (6342)$
$P = (5322)$
$A = (1020)$

$D \rightarrow A \rightarrow B, C, E$

$D \rightarrow E \rightarrow A \rightarrow B, C$