Deadlock Detection

Several Instances of a Resource Type

Tape drives Plotters Scanners CD Roms

E = (4 2 3 1)

Tape drives Plotters Scanners CD Roms

A = (2 1 0 0)

$A \quad R$

$(2\ 1\ 0\ 0) \geq R_3, (2\ 1\ 0\ 0)$

Current allocation matrix

$$C = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 2 & 0 & 0 & 1 \\ 0 & 1 & 2 & 0 \end{bmatrix}$$

Request matrix

$$R = \begin{bmatrix} 2 & 0 & 0 & 1 \\ 1 & 0 & 1 & 0 \\ 2 & 1 & 0 & 0 \end{bmatrix}$$