Deadlock Detection

Several Instances of a Resource Type

Tape drives   Plotters   Scanners   CD Roms

$$E = (4 \quad 2 \quad 3 \quad 1)$$

Tape drives   Plotters   Scanners   CD Roms

$$A = (2 \quad 1 \quad 0 \quad 0)$$

Current allocation matrix

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

Request matrix

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