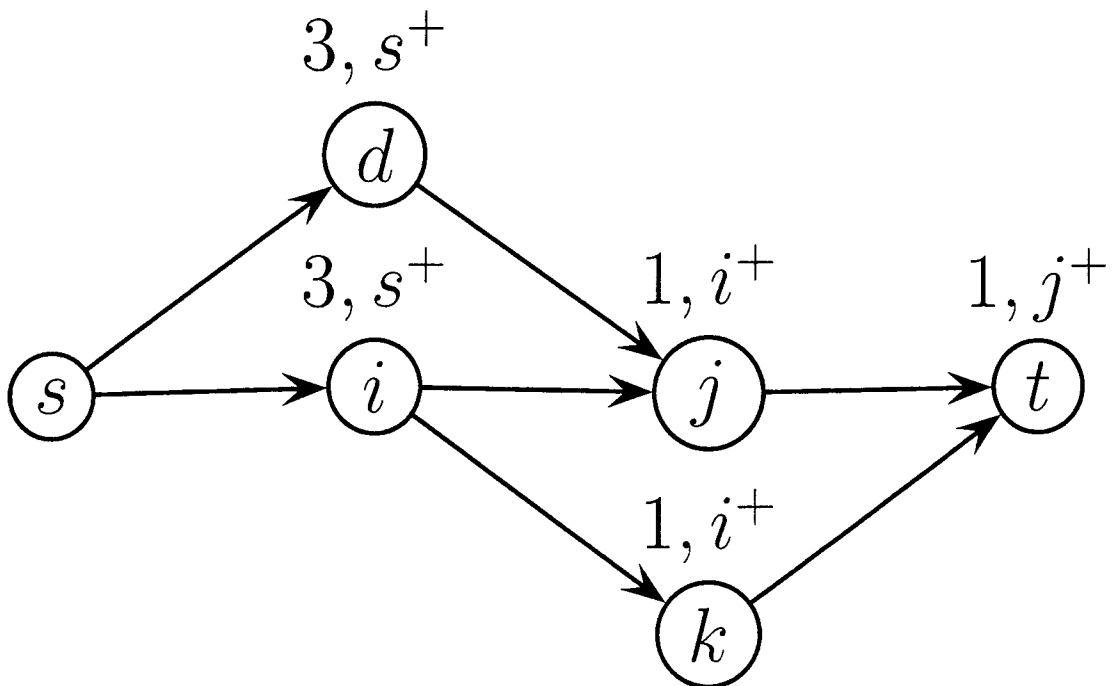
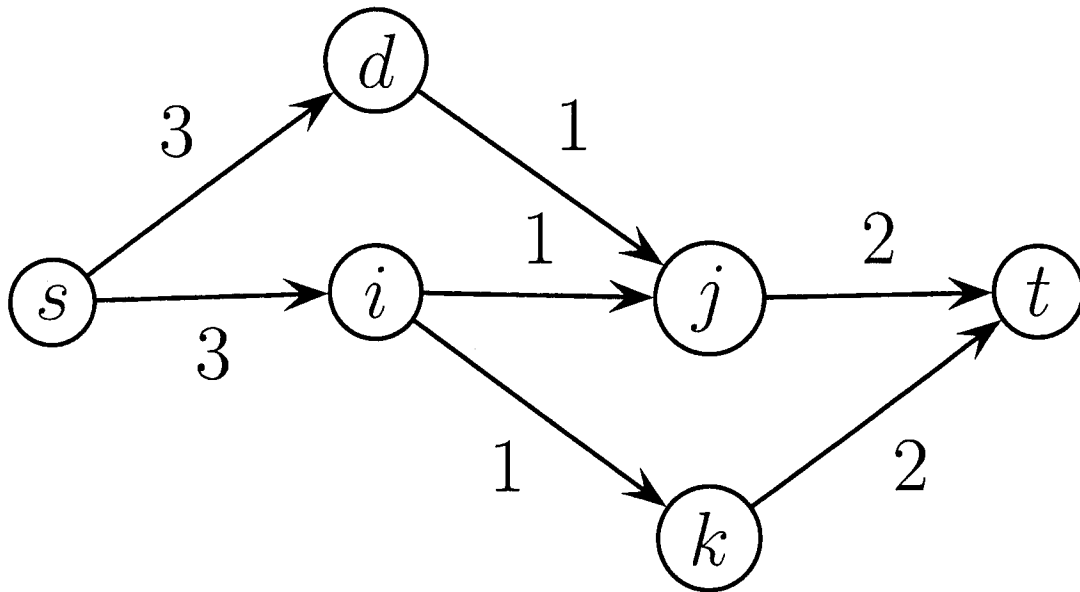


Algorithm for Max Flow

- Based on the current flow pattern, locate a path from (s) to (t) .
- Send flow along this path.

Max Flow

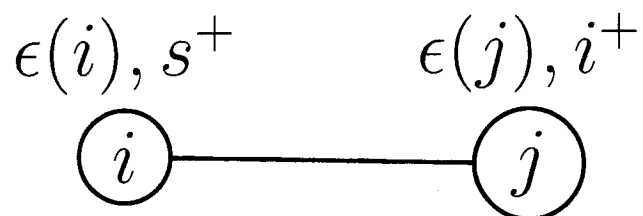


Step 1. Labeling Process

- (i) Unlabeled
- (ii) Labeled and Unscanned
- (iii) Labeled and Scanned

Max Flow

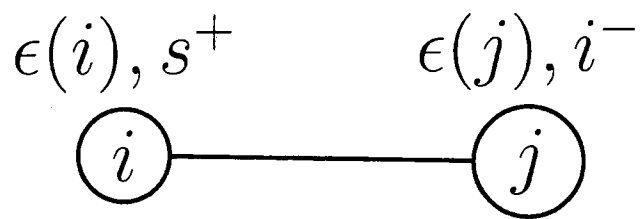
$$x_{i,j} < b_{i,j}$$



$$\begin{aligned}\epsilon(i) &= \text{amount at } v_i \\ \epsilon(j) &= \min[\epsilon(i), b_{i,j} - x_{i,j}]\end{aligned}$$

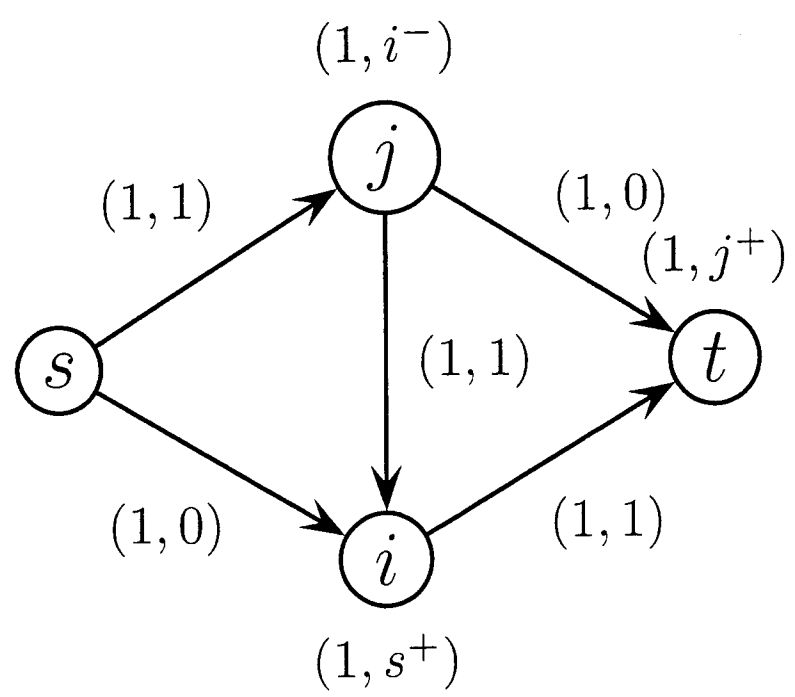
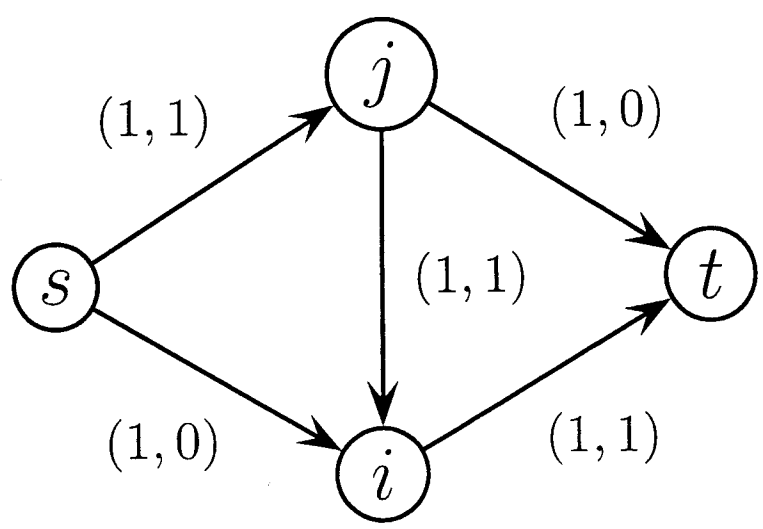
Max Flow

$$x_{j,i} > 0$$

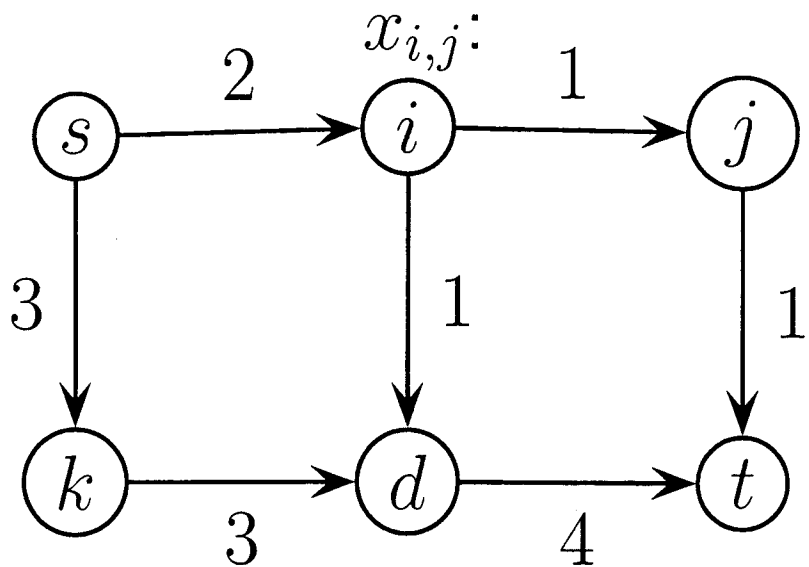
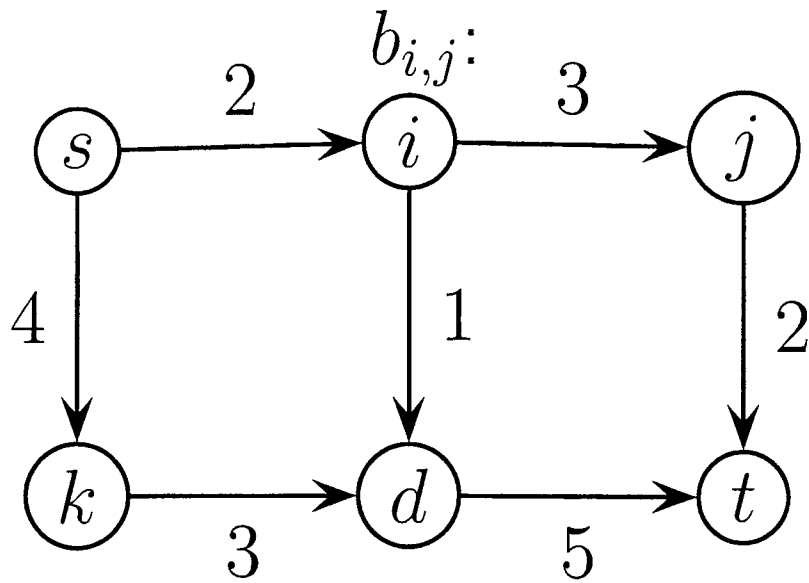


$$\epsilon(j) = \min[\epsilon(i), x_{j,i}]$$

Max Flow



Homework due May 12



Label the nodes given the current $x_{i,j}$ given here.