

The Problem

One of our original goals in developing the Maximum-Flow Problem was to be able to solve the Bipartite Matching Problem, and we now show how to do this. Recall that a *bipartite graph* $G = (V, E)$ is an undirected graph whose node set can be partitioned as $V = X \cup Y$, with the property that every edge $e \in E$ has one end in X and the other end in Y . A *matching* M in G is a subset of the edges $M \subseteq E$ such that each node appears in at most one edge in M . The Bipartite Matching Problem is that of finding a matching in G of largest possible size.

Designing the Algorithm

The graph defining a matching problem is undirected, while flow networks are directed; but it is actually not difficult to use an algorithm for the Maximum-Flow Problem to find a maximum matching.

Beginning with the graph G in an instance of the Bipartite Matching Problem, we construct a flow network G' as shown in Figure 7.9. First we direct all edges in G from X to Y . We then add a node s , and an edge (s, x) from s to each node in X . We add a node t , and an edge (y, t) from each node in Y to t . Finally, we give each edge in G' a capacity of 1.

We now compute a maximum s - t flow in this network G' . We will discover that the value of this maximum is equal to the size of the maximum matching in G . Moreover, our analysis will show how one can use the flow itself to recover the matching.



Figure 7.9 (a) A bipartite graph. (b) The corresponding flow network, with all capacities equal to 1.

Kleinberg Tardos Algorithm Design Solutions

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