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.

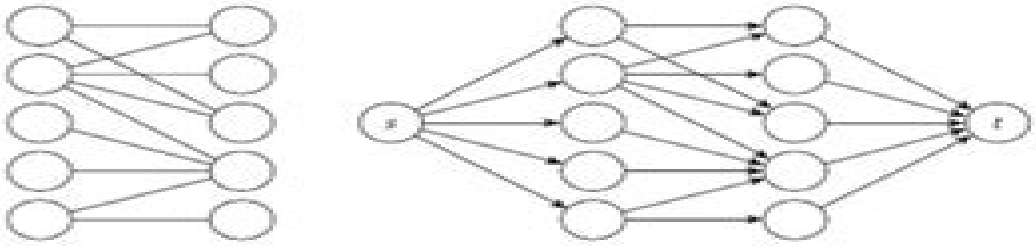

Figure 7.9 (a) A bipartite graph. (b) The corresponding flow network, with all capacities equal to 1.

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