

### 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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**Jose Maria Giron-Sierra**



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