

The following two examples illustrate the procedures described in part (A) and part (B) of the proof of *Theorem 1*.

Example 2.1: Suppose we are given the state transition diagram in Figure 1. Then, if one applies the procedure from part (A), one will produce the triple $(\omega_2, A_2, 2)$, where $\omega_2 = 4, 6, 1, 4, 1, 2, 4, 7, 9$, $A_2 = \{2, 7\}$, where the edges $(3, 4)$, $(5, 6)$, $(6, 1)$, $(8, 4)$, $(10, 1)$, $(11, 4)$, $(4, 7)$, and $(12, 9)$ have been consecutively removed from the 2-forest in Figure 1.

Example 2.2: Suppose we are given the triple $(\omega_3, A_3, 1)$ where $\omega_3 = 3, 10, 12, 2, 5, 5, 2, 5$, and where $A_3 = \{1, 5, 9\}$. Then, if one applies the procedure from part (B), the following edges will be generated in the order they are listed: $(4, 3)$, $(3, 10)$, $(6, 12)$, $(7, 2)$, $(8, 5)$, $(10, 5)$, $(11, 2)$, $(2, 5)$, and $(12, 1)$. Thus the 3-forest in Figure 2 will be generated.

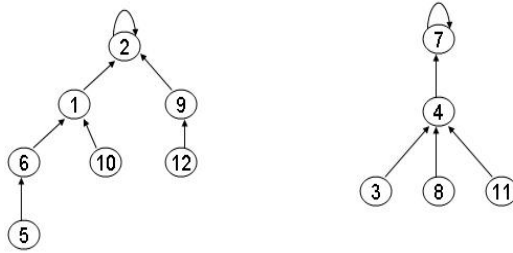


Figure 1: State Transition Diagram for Example 2.1

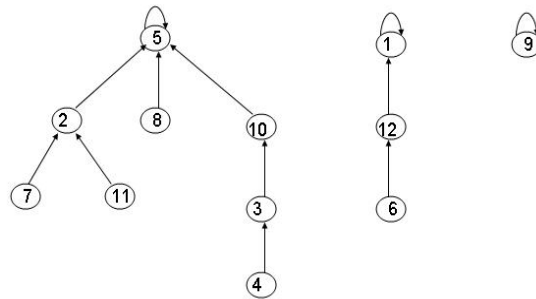


Figure 2: State Transition Diagram for Example 2.2