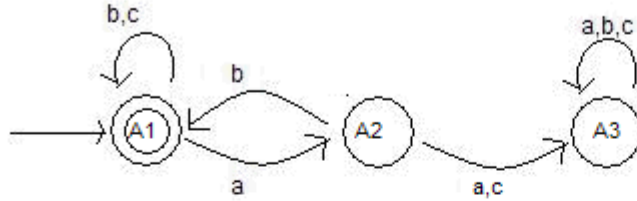
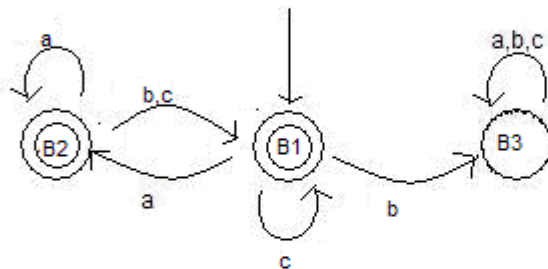


solution for Sept. 12 Daily Question

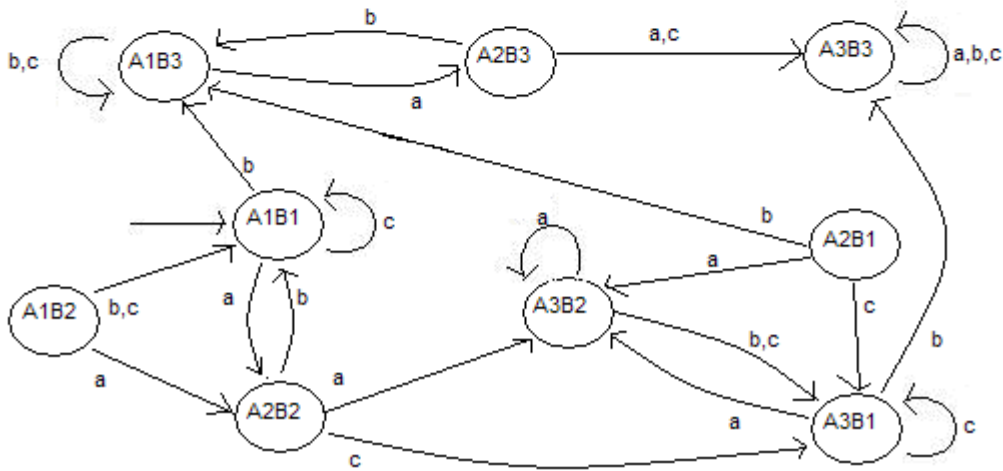
MA accepts language A:



MB accepts language B:



MAxB (start state marked, but not final state(s) - note A1B2 and A2B1 have no incoming arcs and therefore could be removed from the machine:



1. Accepting states of MAxB for language  $A \cup B$  are:
 

a. A1B1	d. A1B2	g. A1B3
b. A2B1	e. A2B2	
c. A3B1	f. A3B2	
2. Accepting states of MAxB for language  $A \cap B$  are:
 

a. A1B1	
b. A1B2	
3. Accepting states of MAxB for language  $A \oplus B$  are:
 

a. A2B1	c. A2B2	e. A1B3
b. A3B1	d. A3B2	