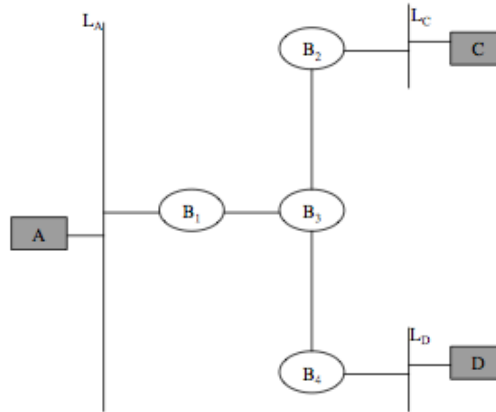


12. [12 points]: Consider the bridge topology shown the figure below. Assuming that all of the forwarding tables are initially empty, write out the forwarding tables at each of the four bridges B_1 through B_4 at the conclusion of the following transmissions:



1. A sends to D
2. D sends to A
3. C sends to A

In the forwarding table at each node, identify the port by the unique LAN segment (L_A , L_C , or L_D) reachable using that port, unless there isn't one, in which case use the identifier of the neighboring bridge to identify the port.

After A sends to D:

B_1		B_2		B_3		B_4	
Destination	Port	Destination	Port	Destination	Port	Destination	Port
A		A		A		A	
C		C		C		C	
D		D		D		D	

After D sends to A:

B_1		B_2		B_3		B_4	
Destination	Port	Destination	Port	Destination	Port	Destination	Port
A		A		A		A	
C		C		C		C	
D		D		D		D	

After C sends to A:

B_1		B_2		B_3		B_4	
Destination	Port	Destination	Port	Destination	Port	Destination	Port
A		A		A		A	
C		C		C		C	
D		D		D		D	

Name: