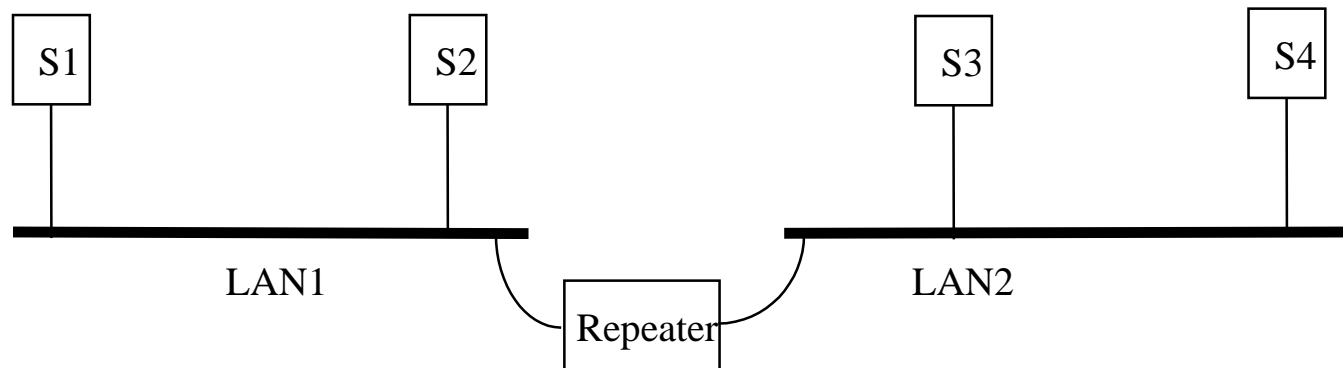
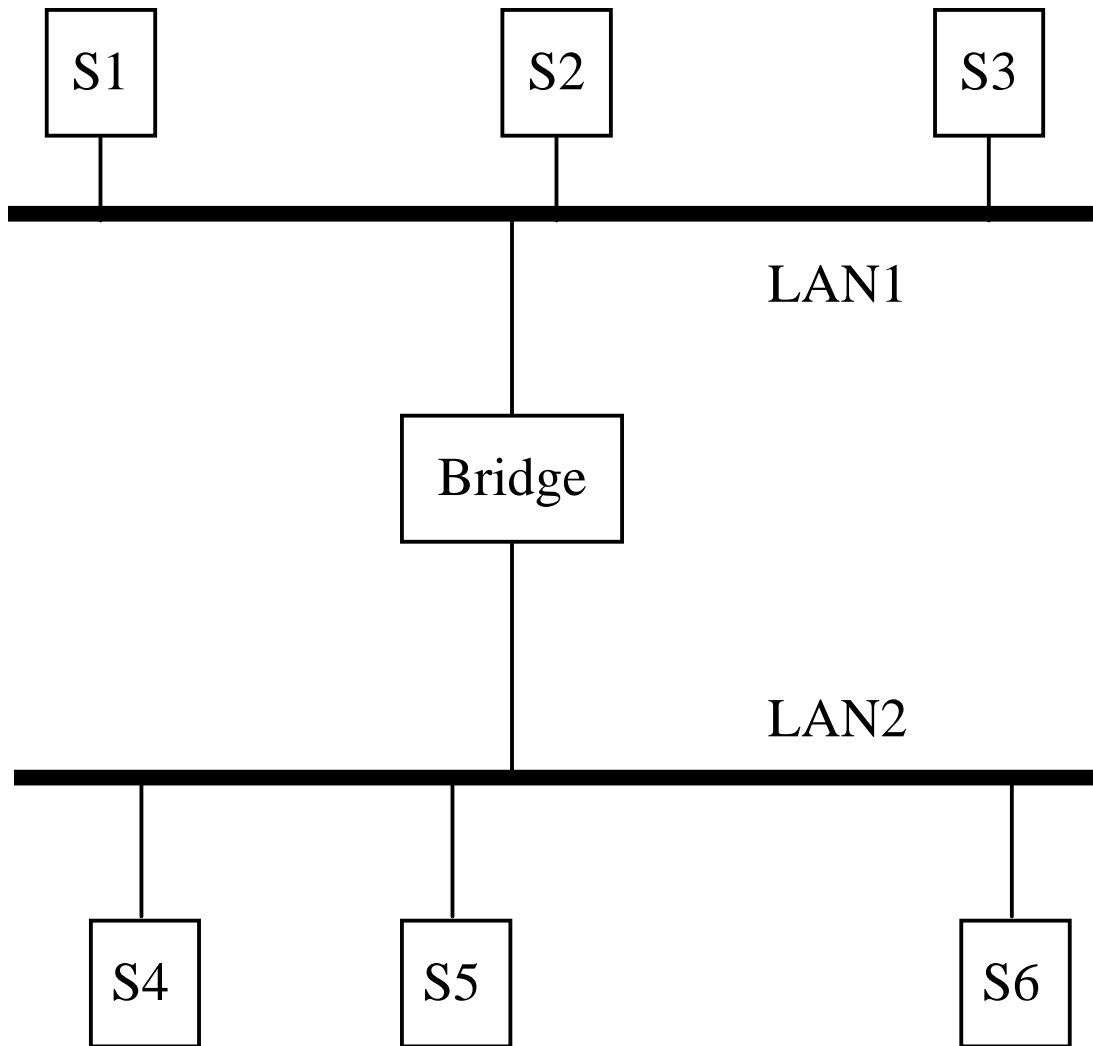


Bridges



A repeater operates at the physical layer and forwards everything between the two LANs.

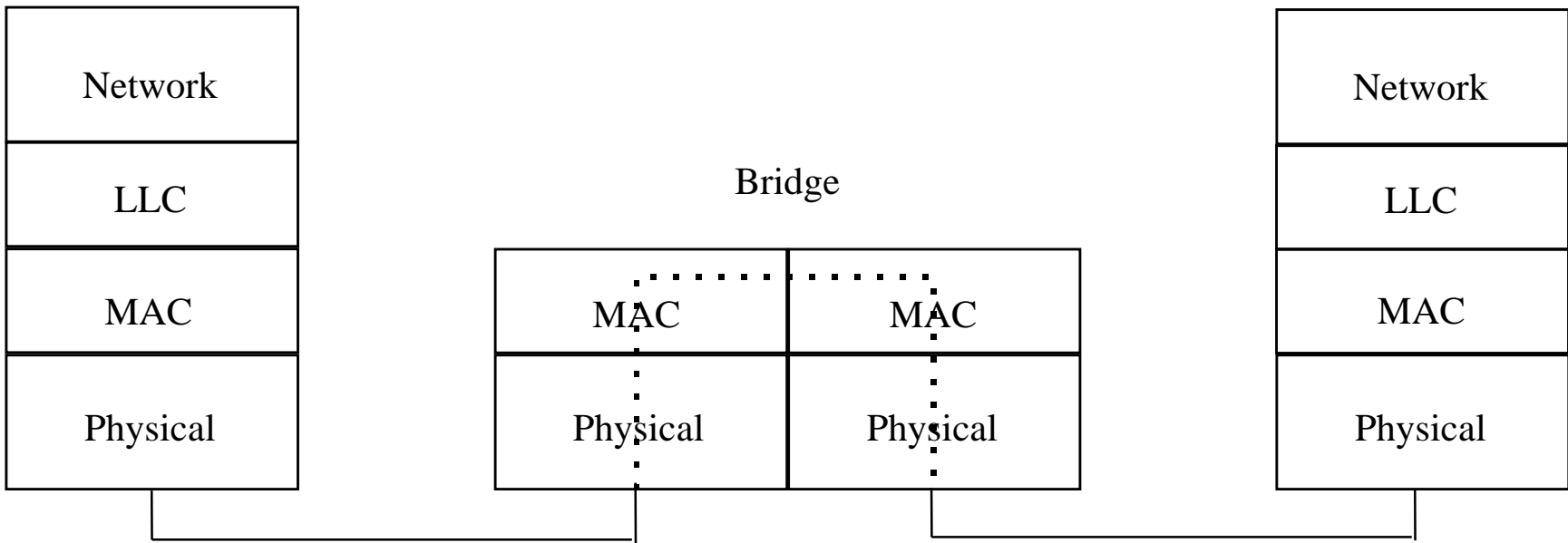
LAN1 and LAN2 are in the same collision domain.



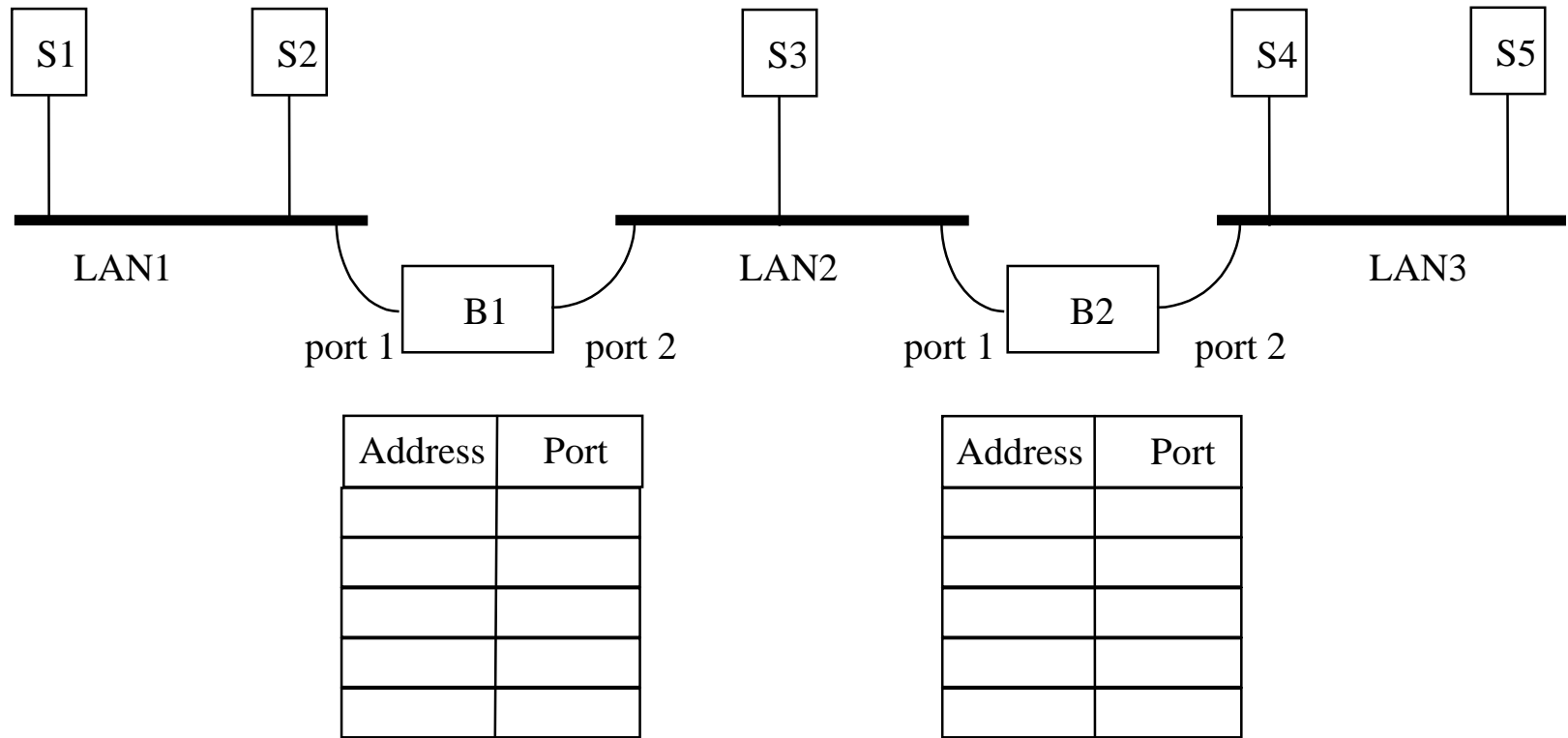
Bridges

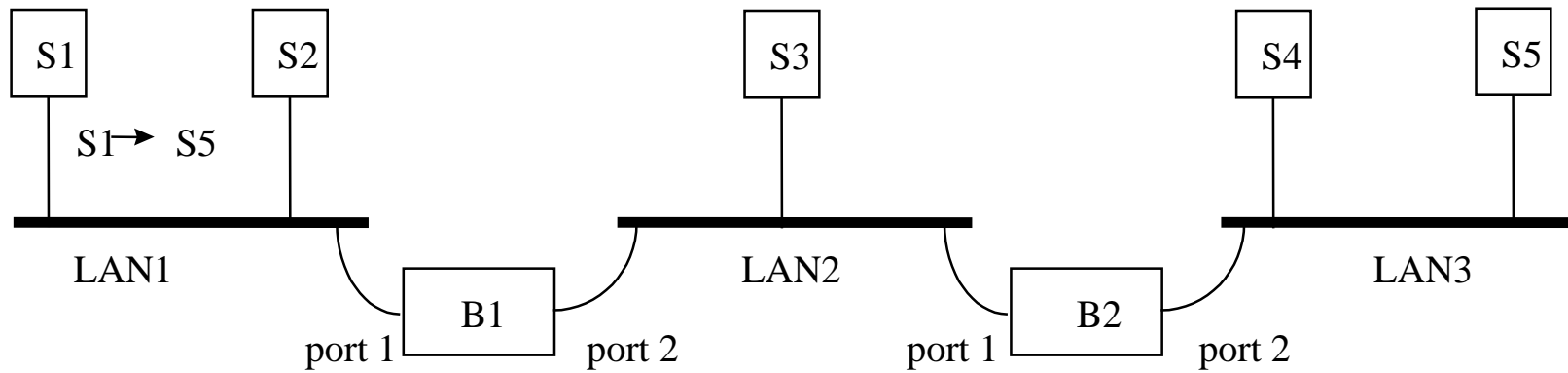
- Operate at the data link layer
- Bridges use backward learning in recording source address on transmissions
- Unlike repeaters, bridges will not forward a frame onto another LAN segment if it knows about location of destination node
- *Bridge management gets more complicated when loops are possible in the frame route.*

Bridge



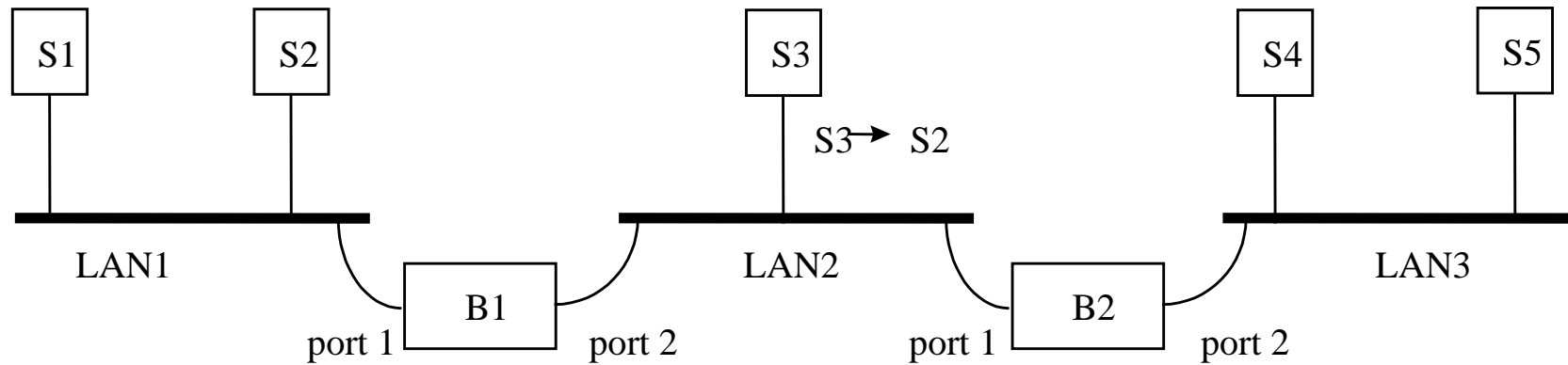
A bridge is a store and forward device that separates collision domains.





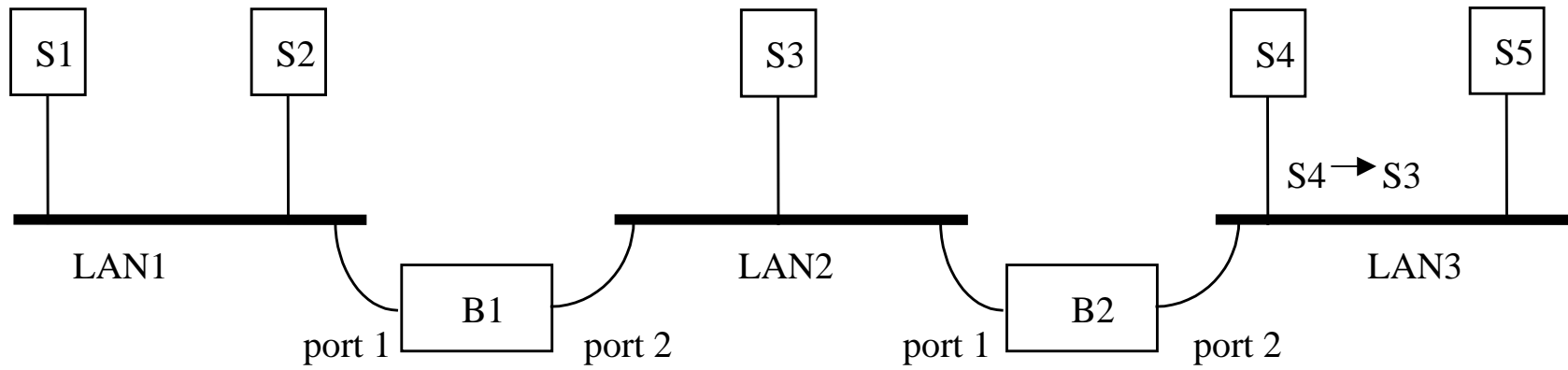
Address	Port
S1	1

Address	Port
S1	1



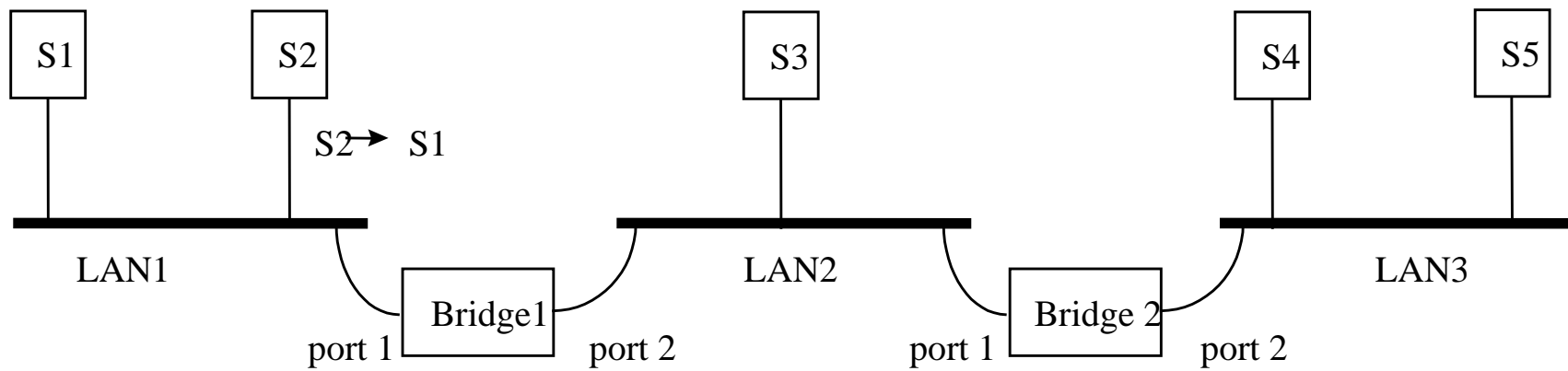
Address	Port
S1	1
S3	2

Address	Port
S1	1
S3	1



Address	Port
S1	1
S3	2
S4	2

Address	Port
S1	1
S3	1
S4	2



Address	Port
S1	1
S3	2
S4	2
S2	1

Address	Port
S1	1
S3	1
S4	2

