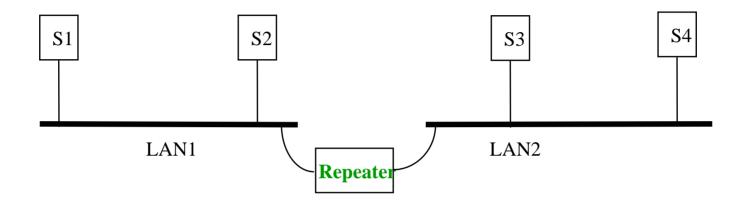
Bridges

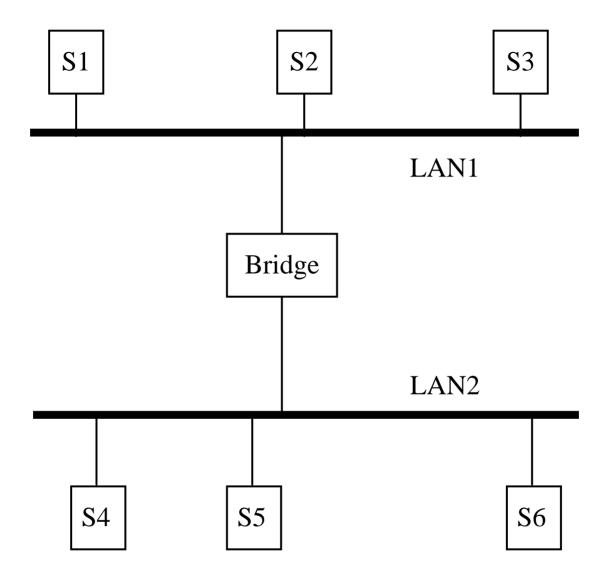




A repeater operates at the physical layer and forwards everything between the two LANs.

LAN1 and LAN2 are in the same collision domain.





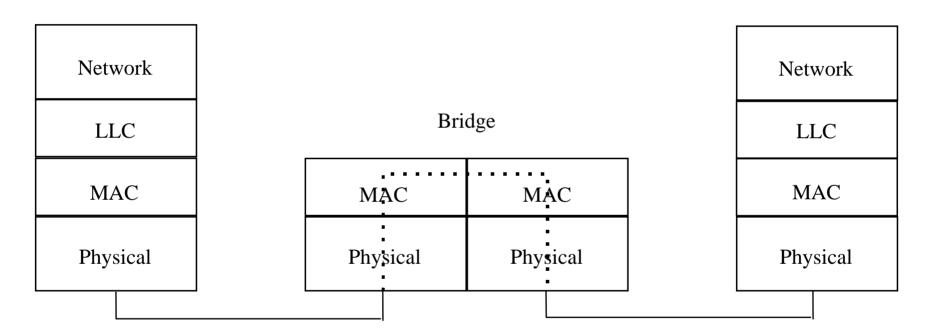
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Bridges

- 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 the location of the destination node.
- Bridge management gets more complicated when loops are possible in the frame route.



Bridge

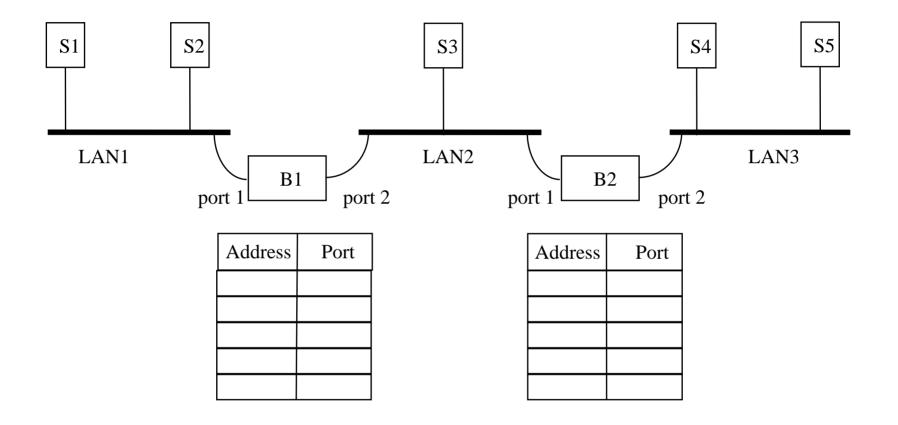


A bridge is a store and forward device that **separates** collision domains.

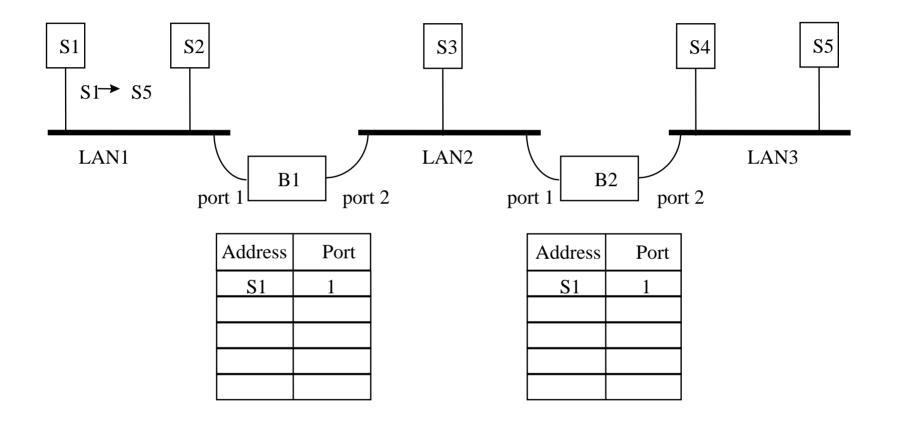
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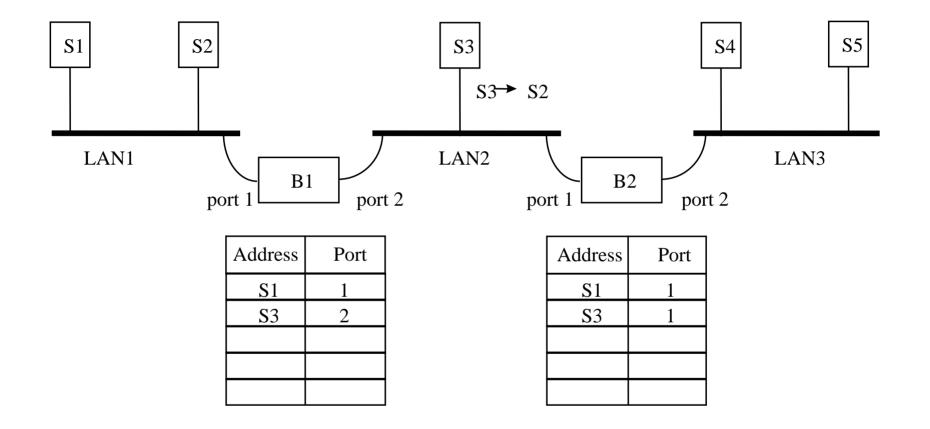




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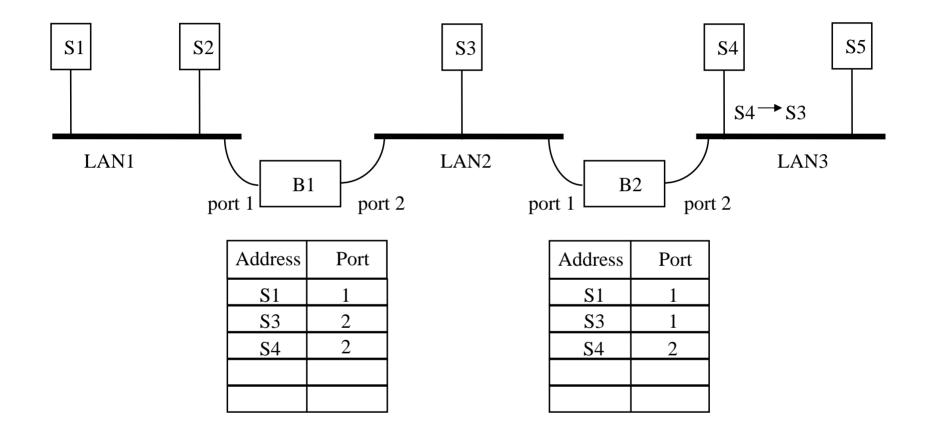


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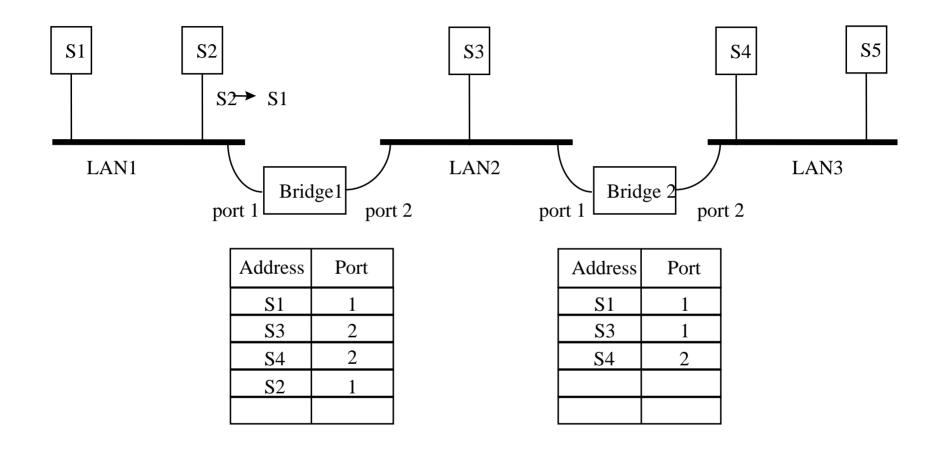
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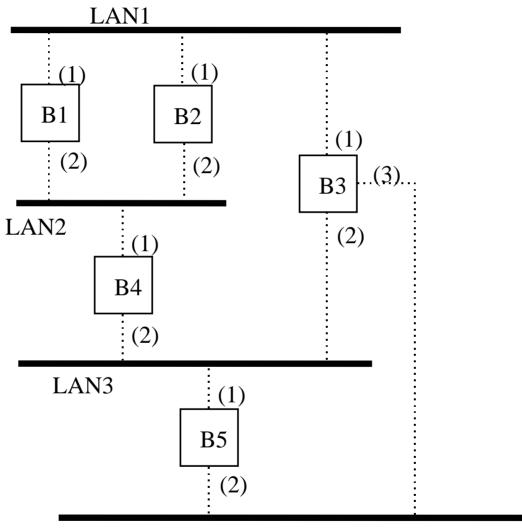


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MAN's with Bridge Loops



WPI

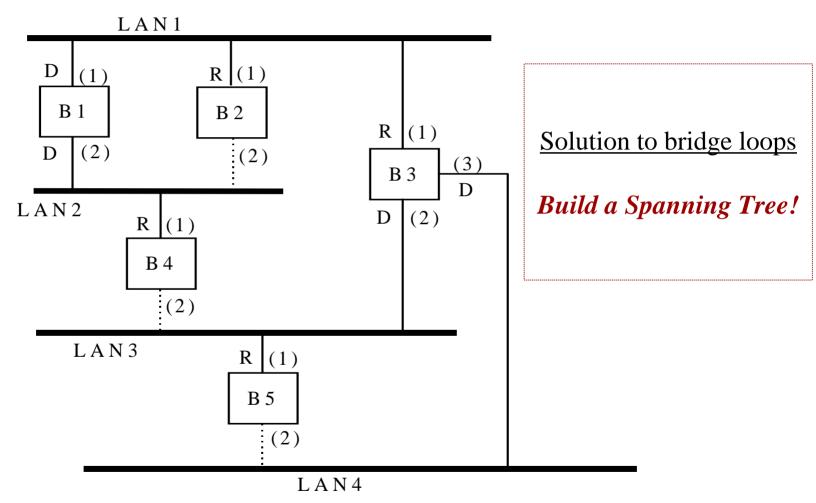
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LAN4

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Networks: Bridges

MANs with Bridge Loops



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