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- P Host A knows router R is next hop to IP destination B:
- A creates IP packet with source A, destination B
- . A uses ARP to get physical layer address of R
- . A creates Ethernet packet with R's physical address as dest, Ethernet packet contains A-to-B IP packet
- . A sends Ethernet packet
- . R receives Ethernet packet
- R removes IP datagram from Ethernet packet, sees it is destined to B
- . R creates physical layer packet, containing A-to-B IP datagram and sends to next router on route to B

11





















