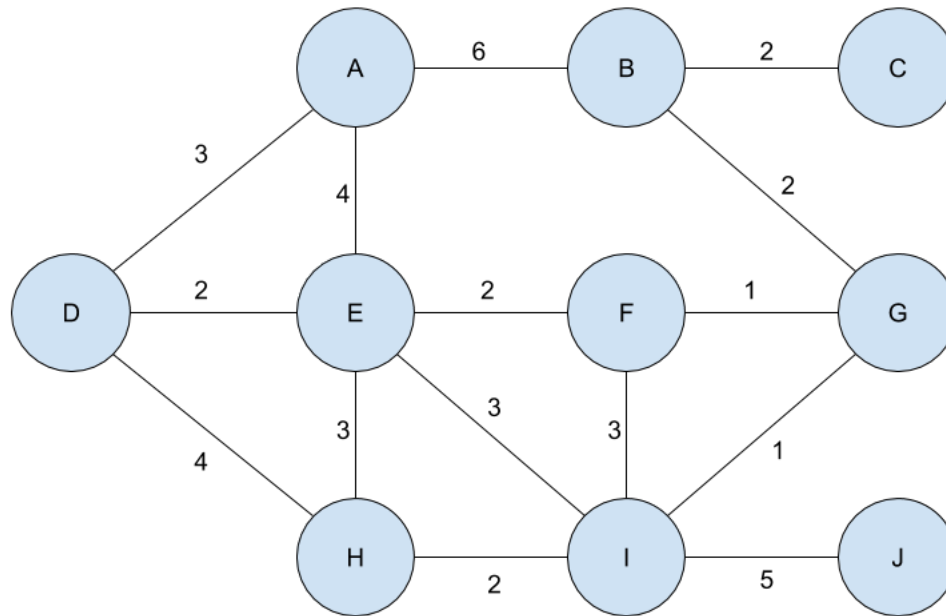


1 Multicast



For parts A and B, use DVMRP Multicast.

1. Assume that nodes D, H, J are members of a multicast group M. If C sends a packet to that group, what path does the packet take to reach H? **Solution:** C-B-G-I-H
2. Does that path change if F joins the group? If so, what is the new path? **Solution:** The path does not change.

Now assume we're using CBT with B as the initial core and no group members.

1. Suppose J joins the group initially. What path does its join message take? **Solution:** J-I-G-B
2. Five minutes later, after J's successful join, suppose H joins the group. What path does its join message take? **Solution:** H-I
3. Five minutes later, after H's successful join, suppose D joins the group. What paths does its join message take? **Solution:** D-E-F-G
4. Suppose H sends a multicast packet to its fellow group members, J and D. What path does the message take? **Solution:** H-I-G-F-E-D, with I-J and G-B

5. Suppose that C was the core instead. What would the path from the previous part have been? **Solution:**
H-I-G-F-E-D, with I-J and G-B-C