COMP9332 Network Routing and Switching
Self-assessed Tutorial for OSPF

In this tutorial, you'll solve some of the questions from Forouzan (3rd Ed. Forouzan, pages 433-434).

Q17. Using the Figure of Slide 58-59, show the link state update/router link advertisement for router A.

Q18 Using the Figure of Slide 58-59, show the link state update/router link advertisement for router D.

Q19. Using the Figure of Slide 58-59, show the link state update/router link advertisement for router E.

Q20. Using the Figure of Slide 58-59, show the link state update/network link advertisement for N2.

Q21. Using the Figure of Slide 58-59, show the link state update/network link advertisement for N4.

Q22. Using the Figure of Slide 58-59, show the link state update/network link advertisement for N5.

Q23. In the Figure of Slide 58-59 assume that the designated router for N1 is router A. Show the link state update/network link advertisement for this network.

Q24. In the Figure of Slide 58-59 assume that the designated router for N3 is router D. Show the link state update/network link advertisement for this network.

Q29. Show the autonomous system with the following specifications:

(a) There are 8 networks (N1-N8)
(b) There are 8 routers (R1-R8)
(c) N1-N6 are Ethernet LANs
(d) N7-N8 are point-to-point WANs
(e) R1 connects N1 and N2
(f) R2 connects N1 and N7
(g) R3 connects N2 and N8
(h) R4 connects N7 and N6
(i) R5 connects N6 and N3
(j) R6 connects N6 and N4
(k) R7 connects N6 and N5
(l) R8 connects N8 and N5

Q30. Draw the graphical representation of the autonomous system of Q29 as seen by OSPF.