

3 RIP and OSPF

1. Describe the differences between RIP and OSPF. (Hint: Consider such aspects as routing algorithm, functionality, scalability, capability, complexity, stability, loop avoidance and so on)
2. Describe how the Dijkstra and Bellman-Ford algorithms function. You might use pseudo-code if you wish. How do the two algorithms differ from each other?
3. Table simulation: Use the Dijkstra and Bellman-Ford algorithms and show how they find the routes in Figure 1 from node U0 to all other nodes in the network (return the final routing table and show how it developed there). Note: See the animation of Dijkstra algorithm at

<http://www-b2.is.tokushima-u.ac.jp/~ikeda/suuri/dijkstra/dijex1.html>

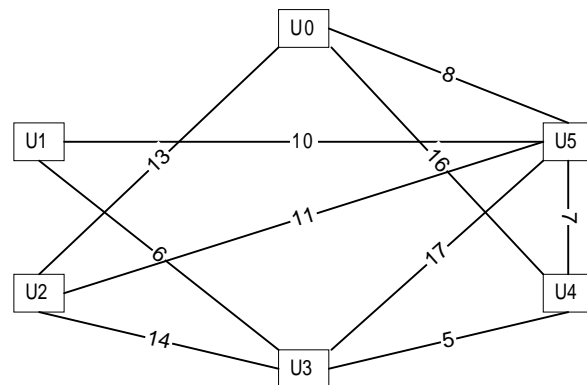


Figure 1 Network 1