
Link State Routing

Figure-1

Concept of link state routing

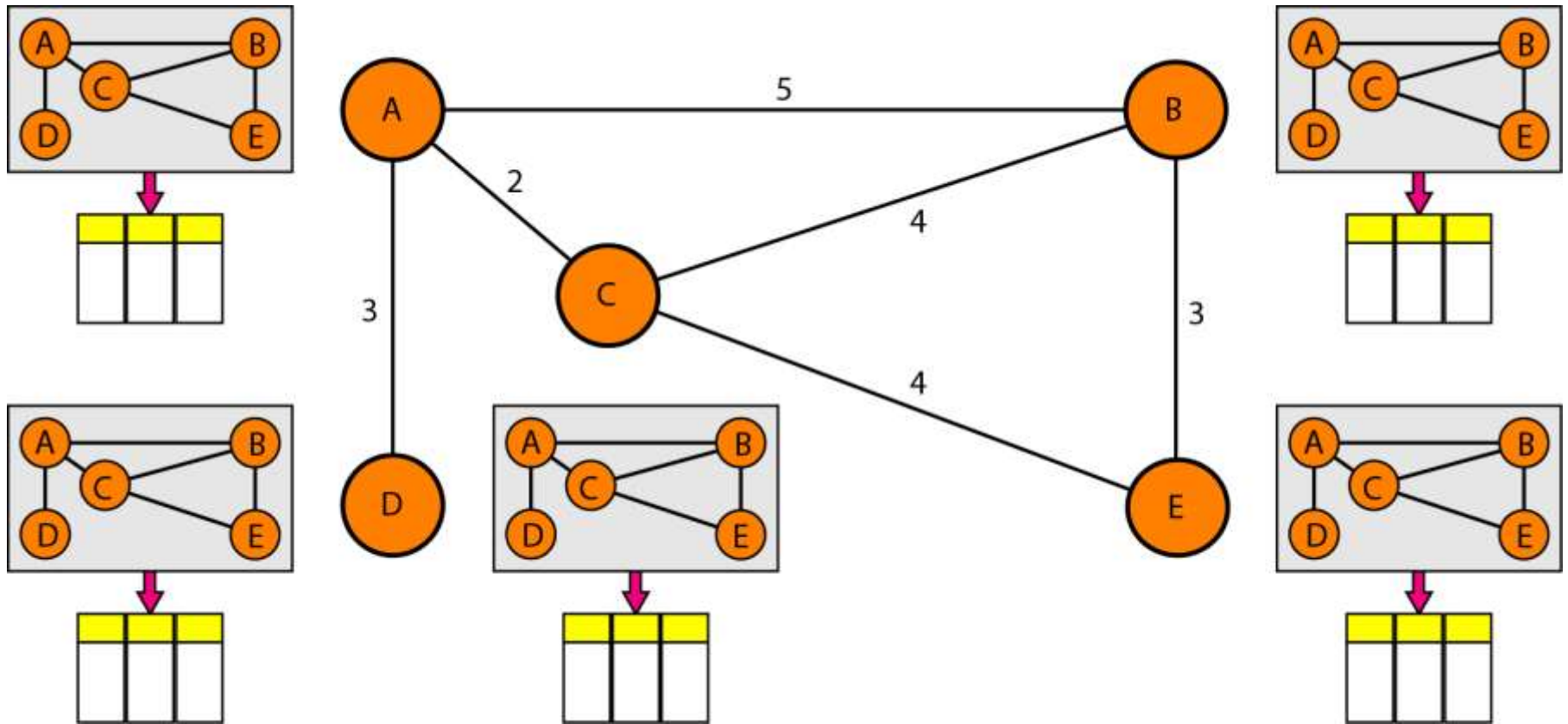


Figure-2

Link state knowledge

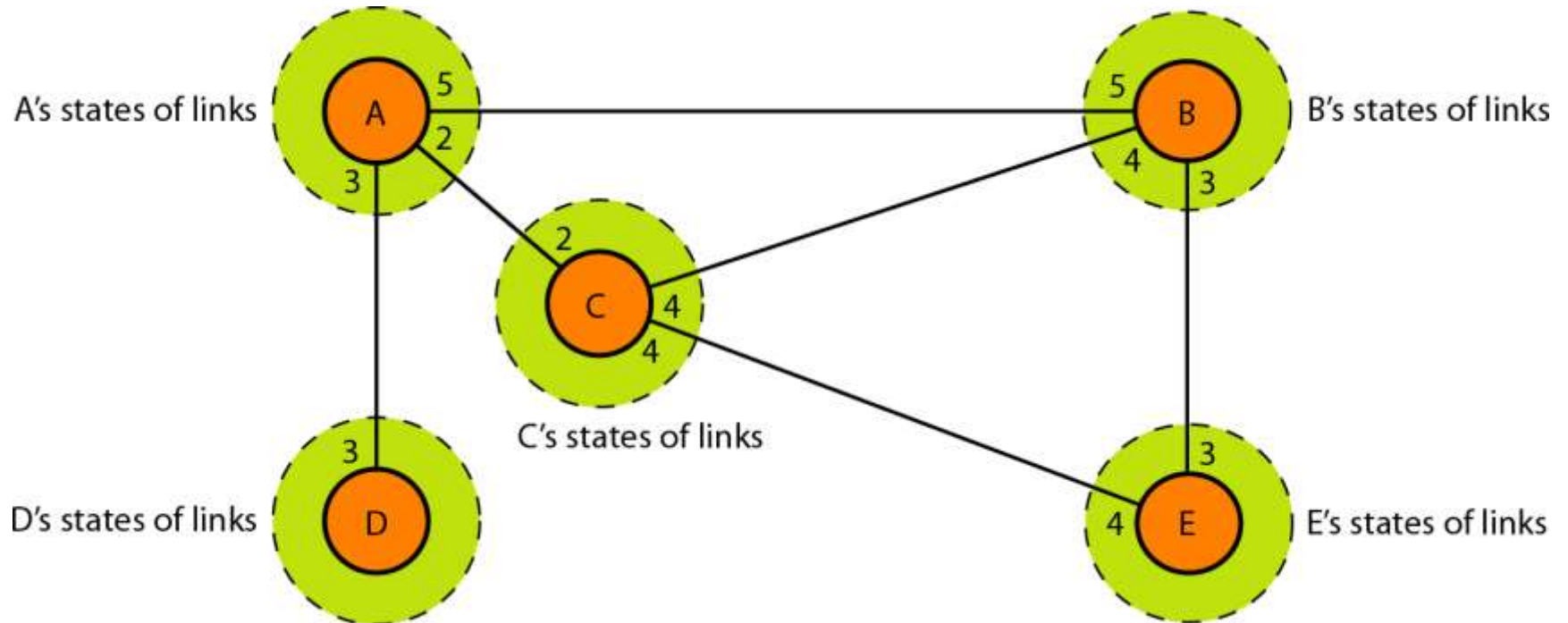


Figure-3

Dijkstra algorithm

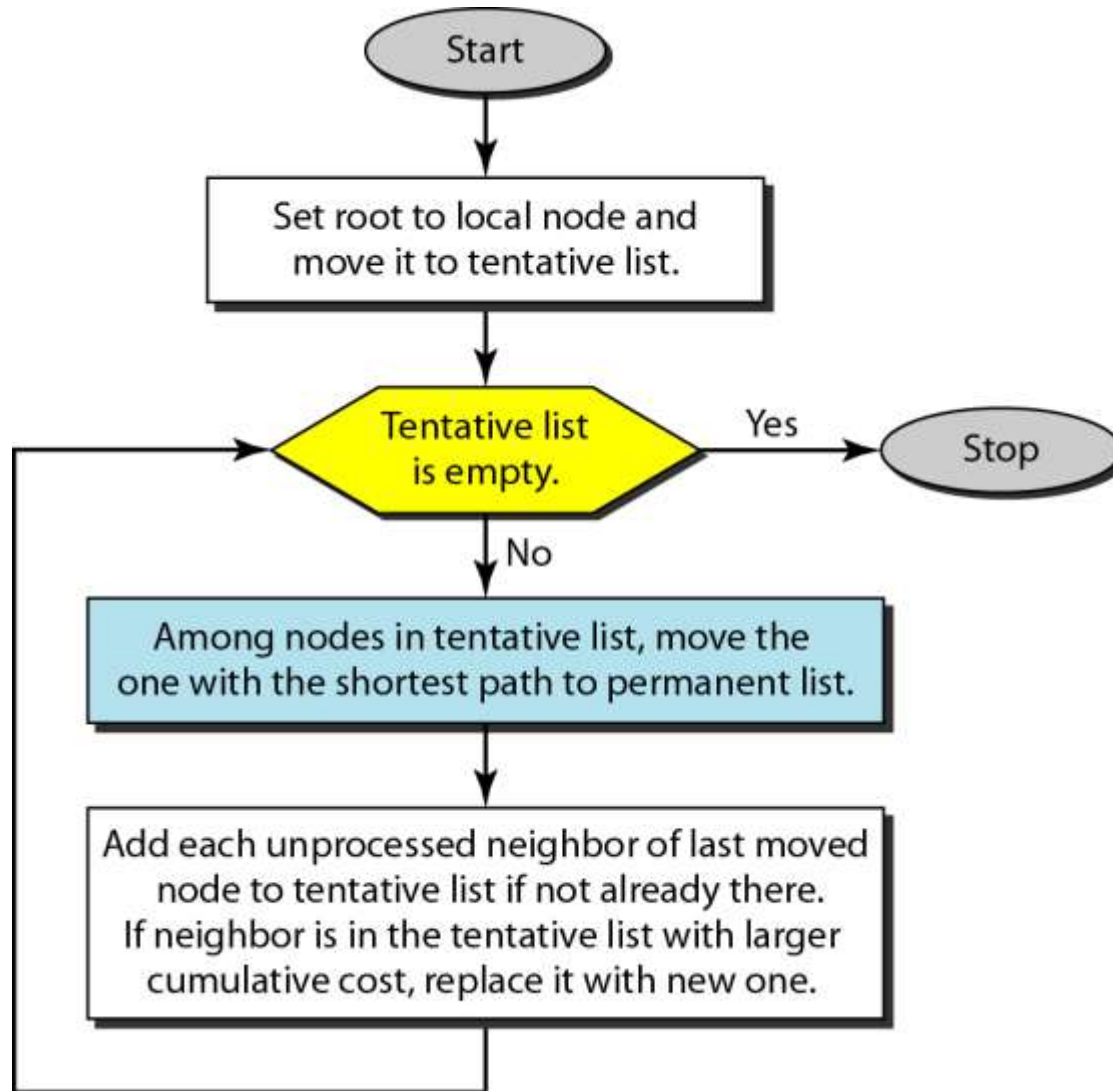


Figure-4

Example of formation of shortest path tree

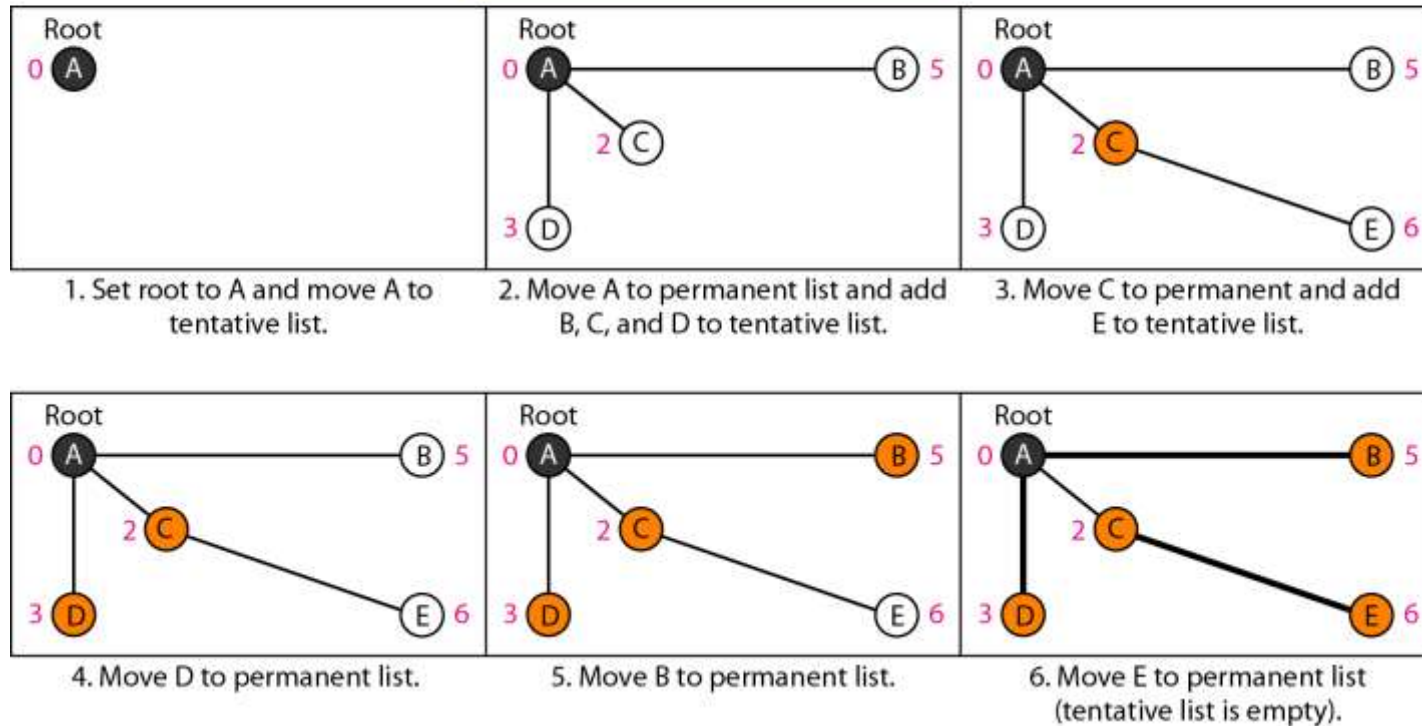
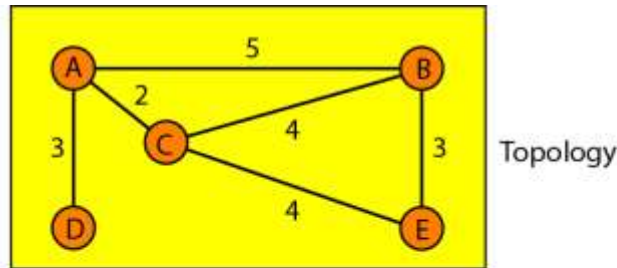


Table-1 *Routing table for node A*

<i>Node</i>	<i>Cost</i>	<i>Next Router</i>
A	0	—
B	5	—
C	2	—
D	3	—
E	6	C

References

- 1. Computer Networks, A. S. Tenenbaum, D. J. Wetheral, Pearson India.***
 - 2. Data Communications and Networking, B.A. Forouzan, Tata McGraw Hill Education Private Limited.***
 - 3. Data and Computer Communications, William Stallings, Pearson-Prentice Hall.***
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