

CS 112 - Fall 2012, Lab 12

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Graph

- Vertices: V
- Edges: E

- Representation
 - **Adjacency list**
 - Adjacency matrix
 - Adjacency sets

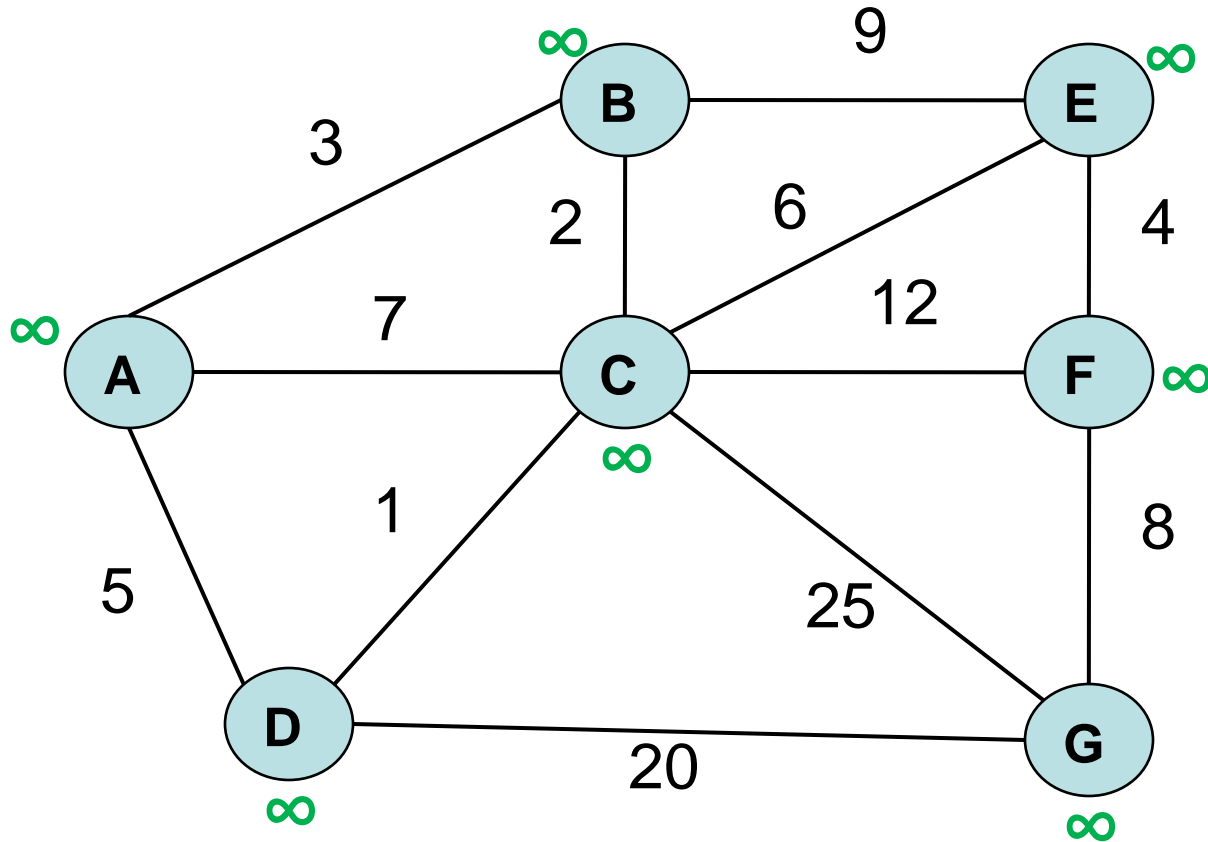
Graph Traversal

- Depth-first traversal
 - Stack
- Breadth-first traversal
 - Queue

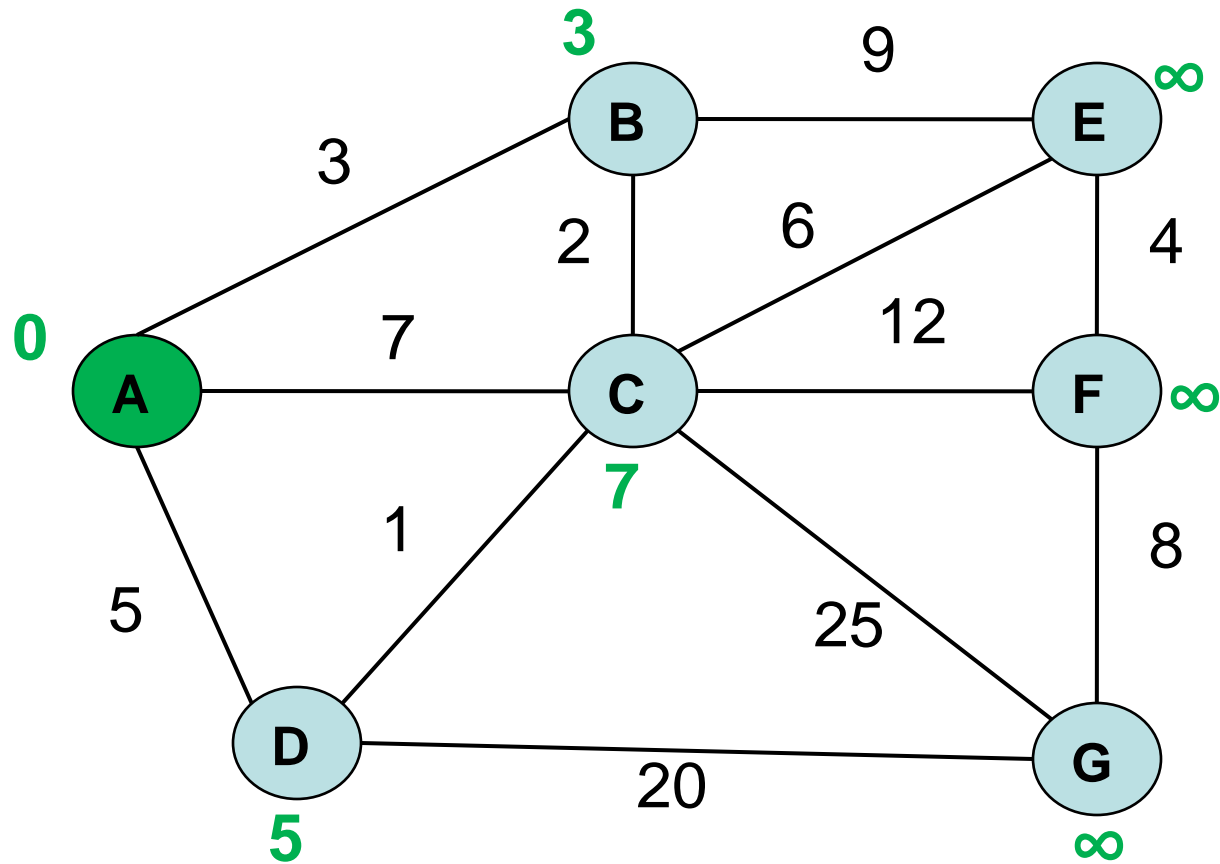
Graph Problem

- Minimum Spanning Tree
 - Prim's algorithm
 - Kruskal's algorithm
- Shortest Path
 - Dijkstra's algorithm
 - Bellman–Ford algorithm

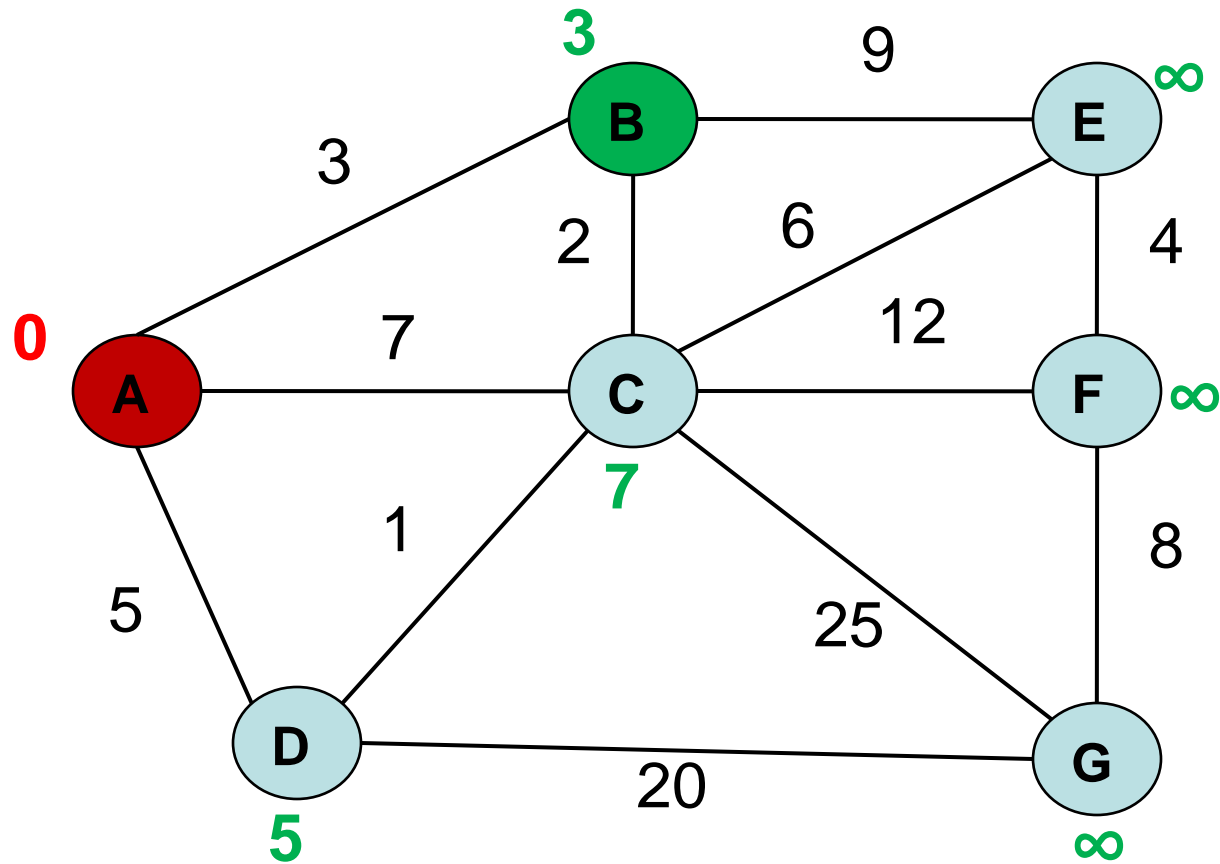
Dijkstra's algorithm



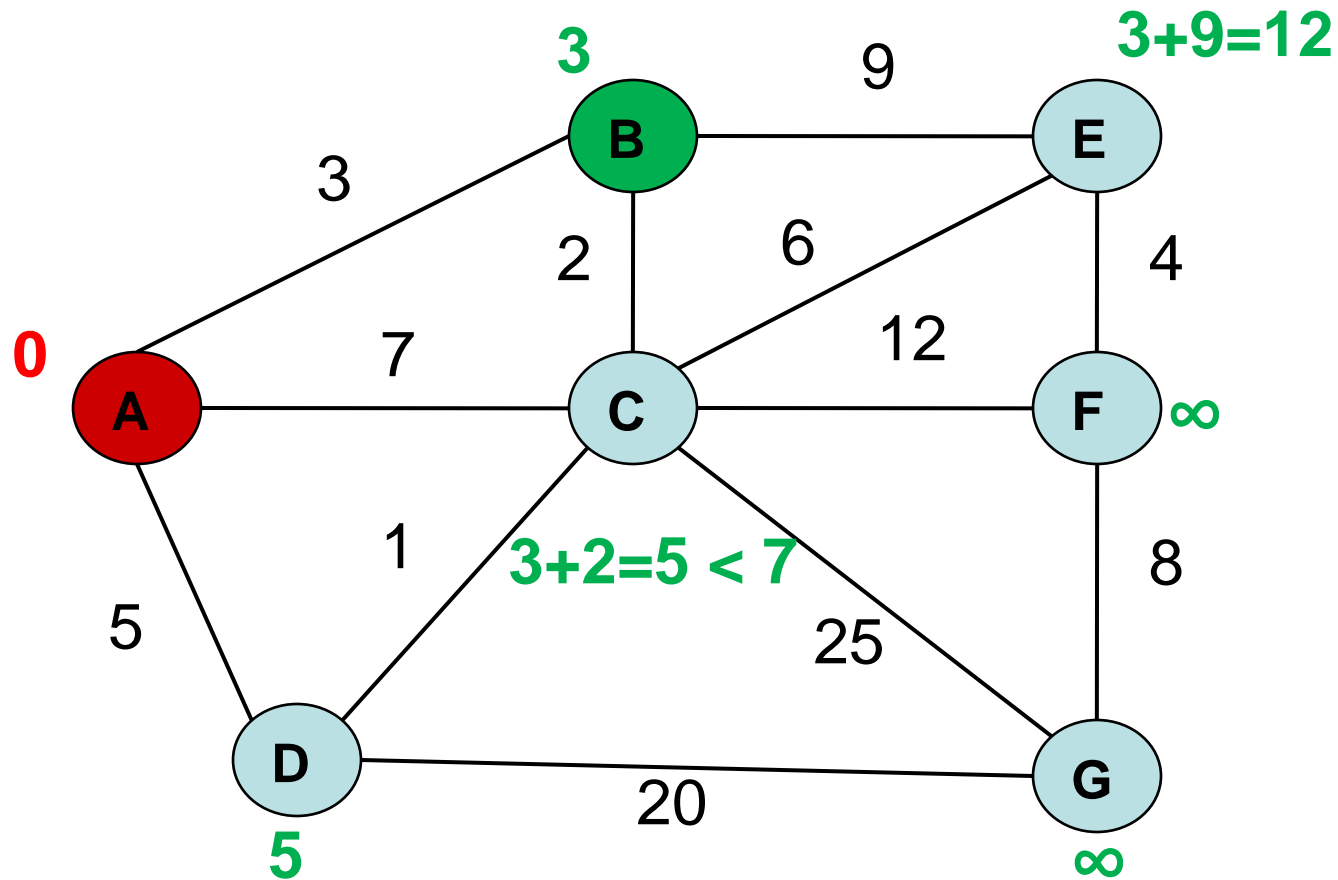
Dijkstra's algorithm



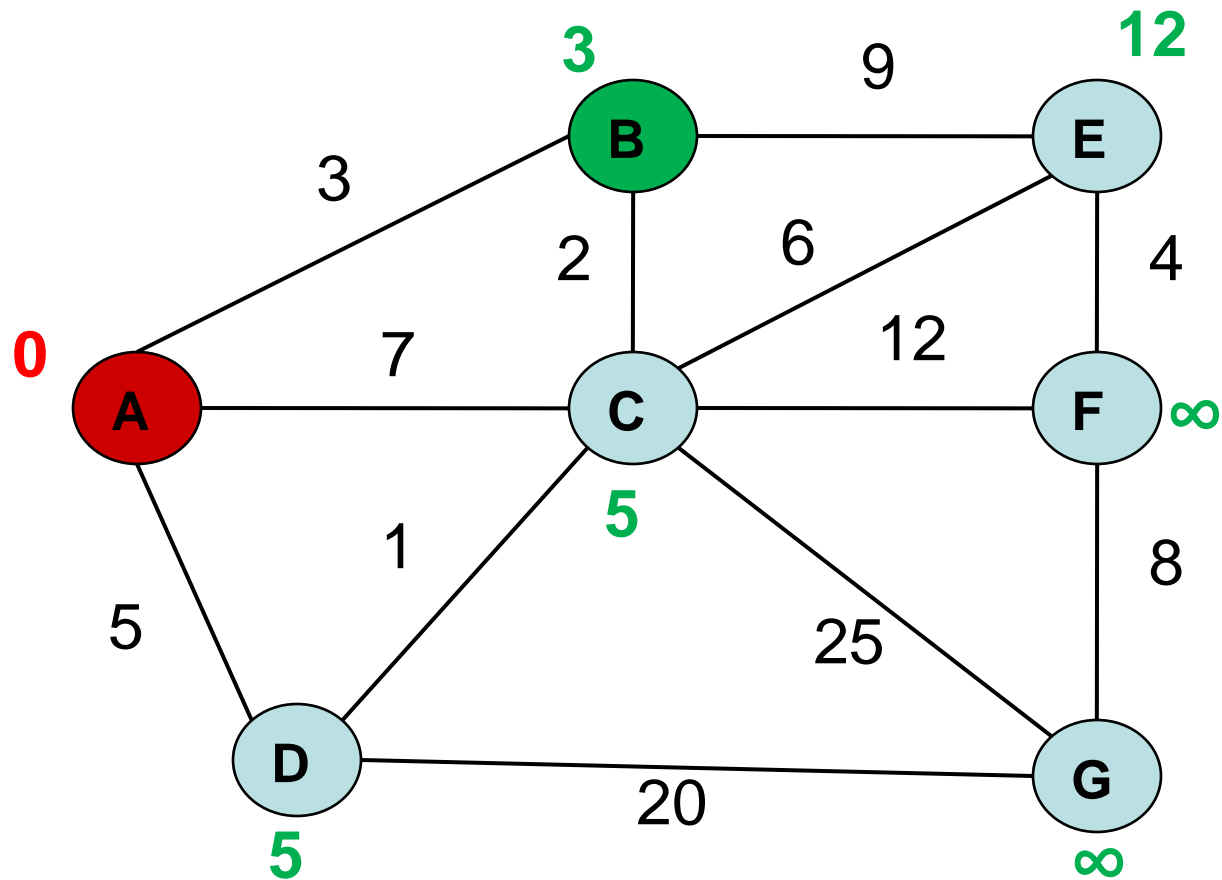
Dijkstra's algorithm



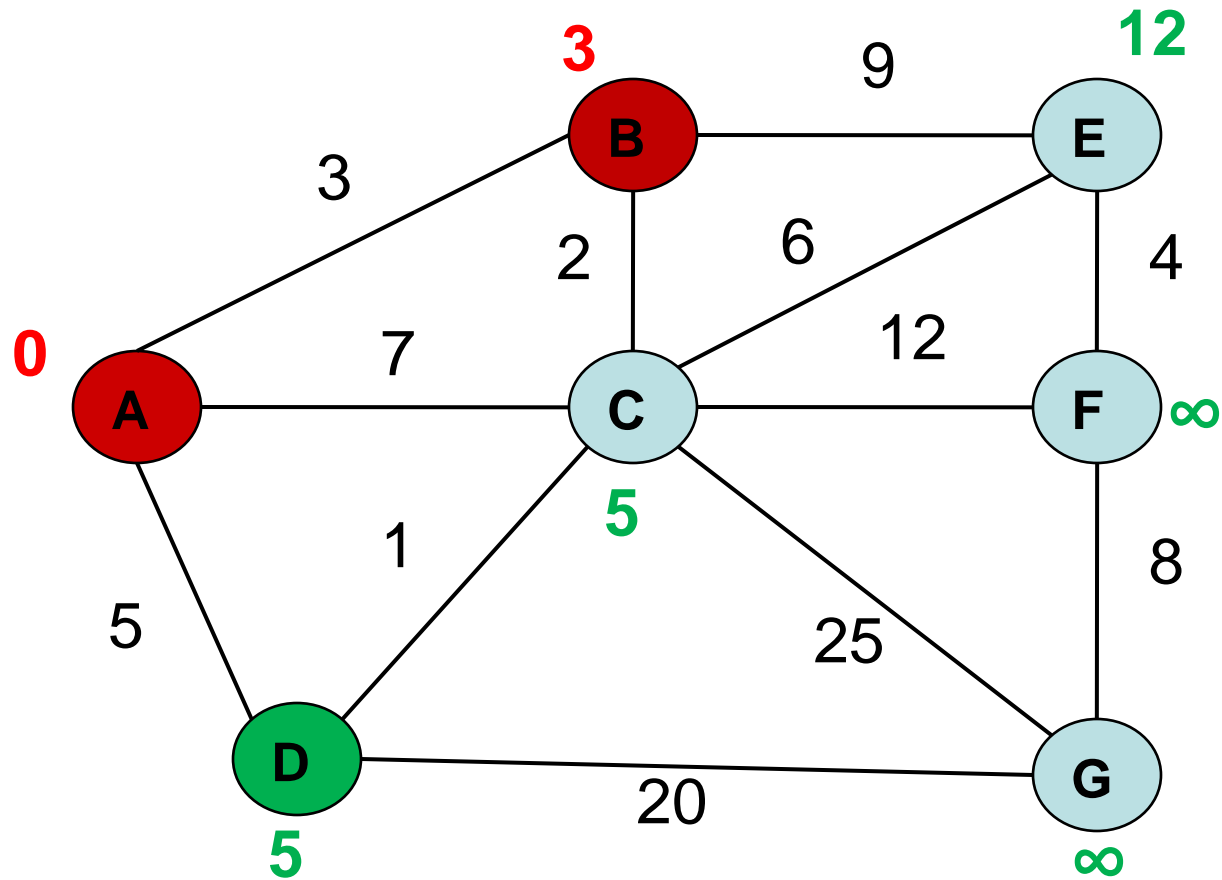
Dijkstra's algorithm



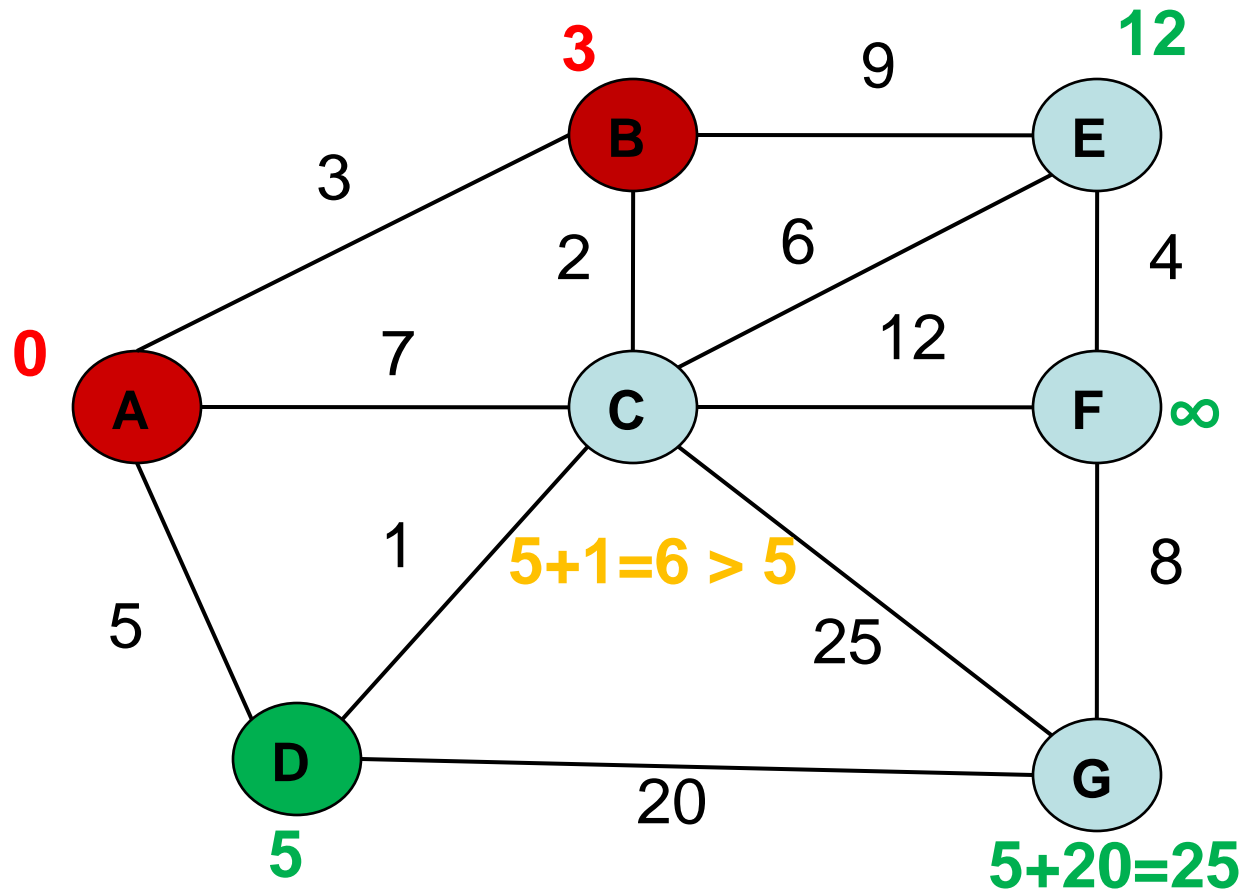
Dijkstra's algorithm



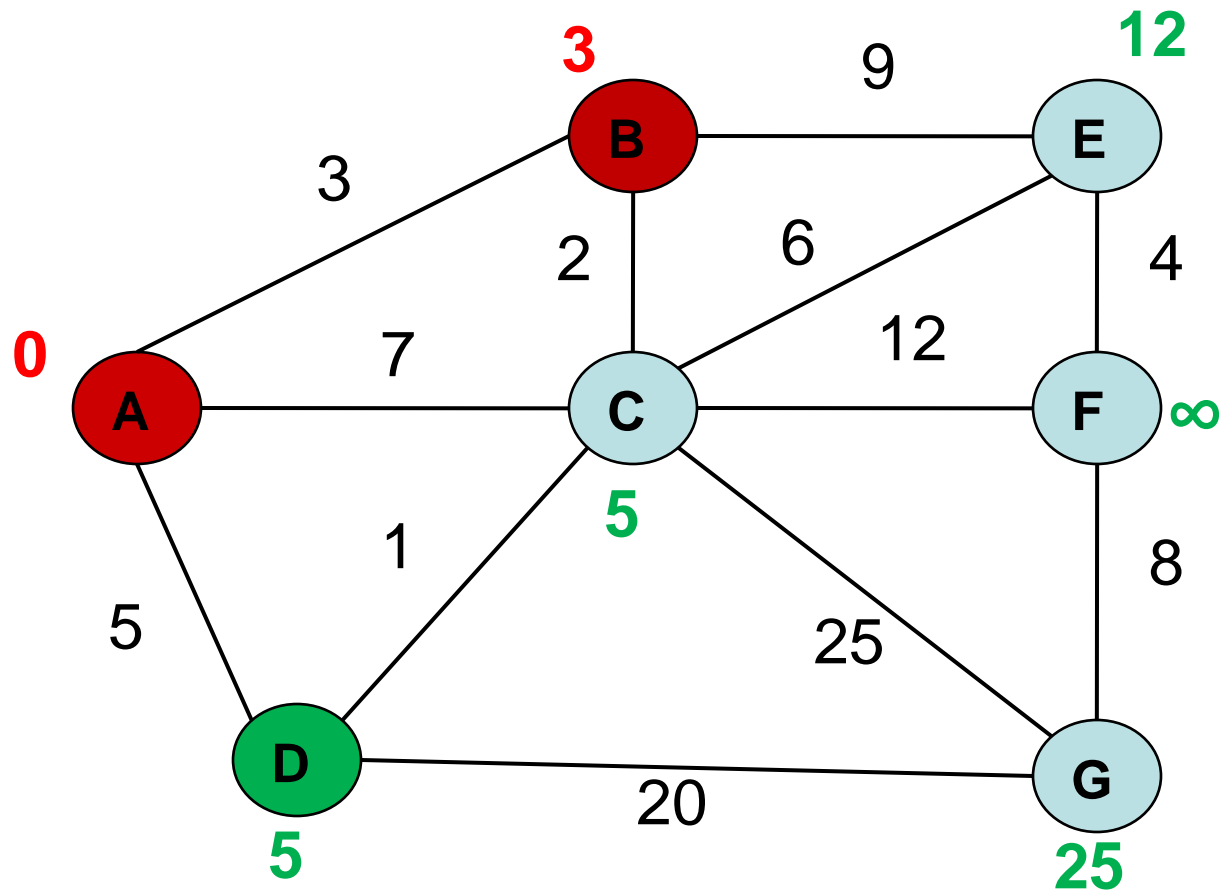
Dijkstra's algorithm



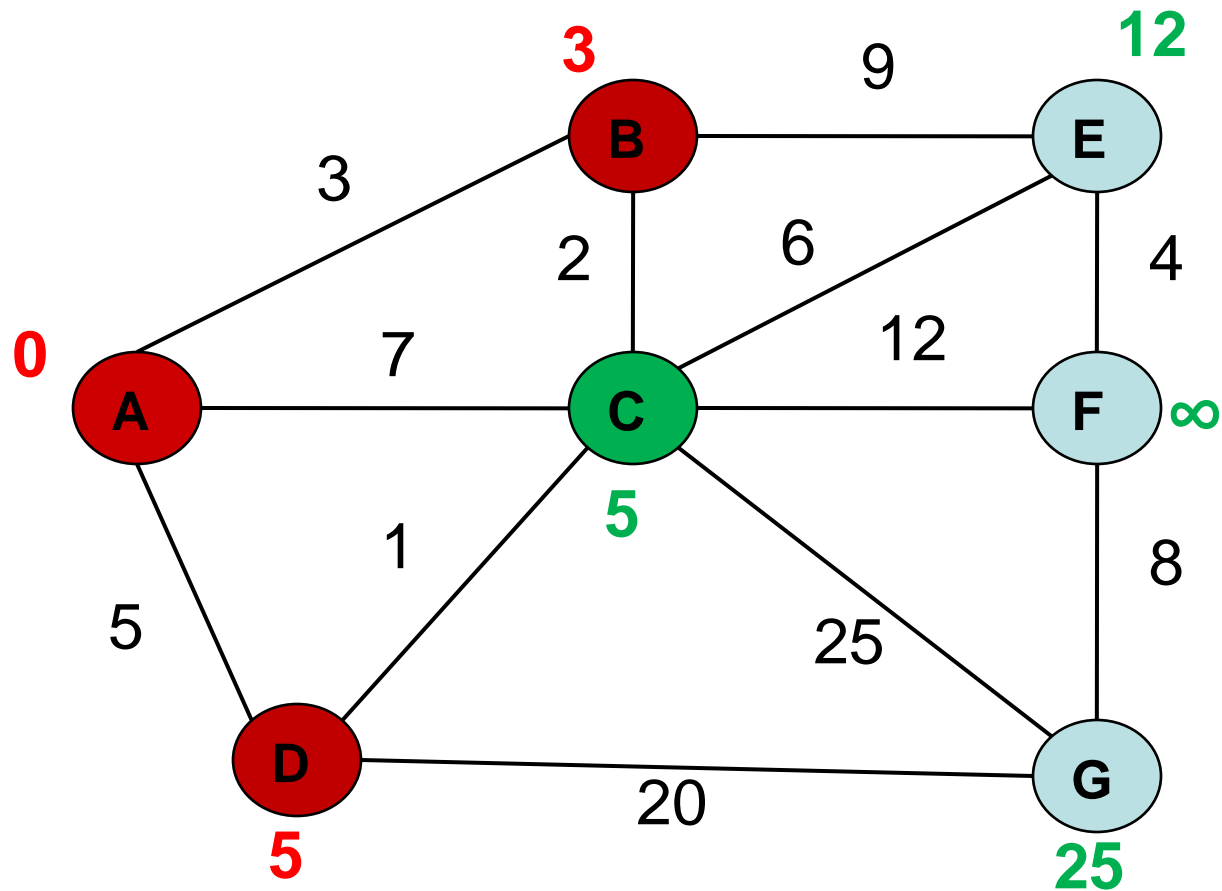
Dijkstra's algorithm



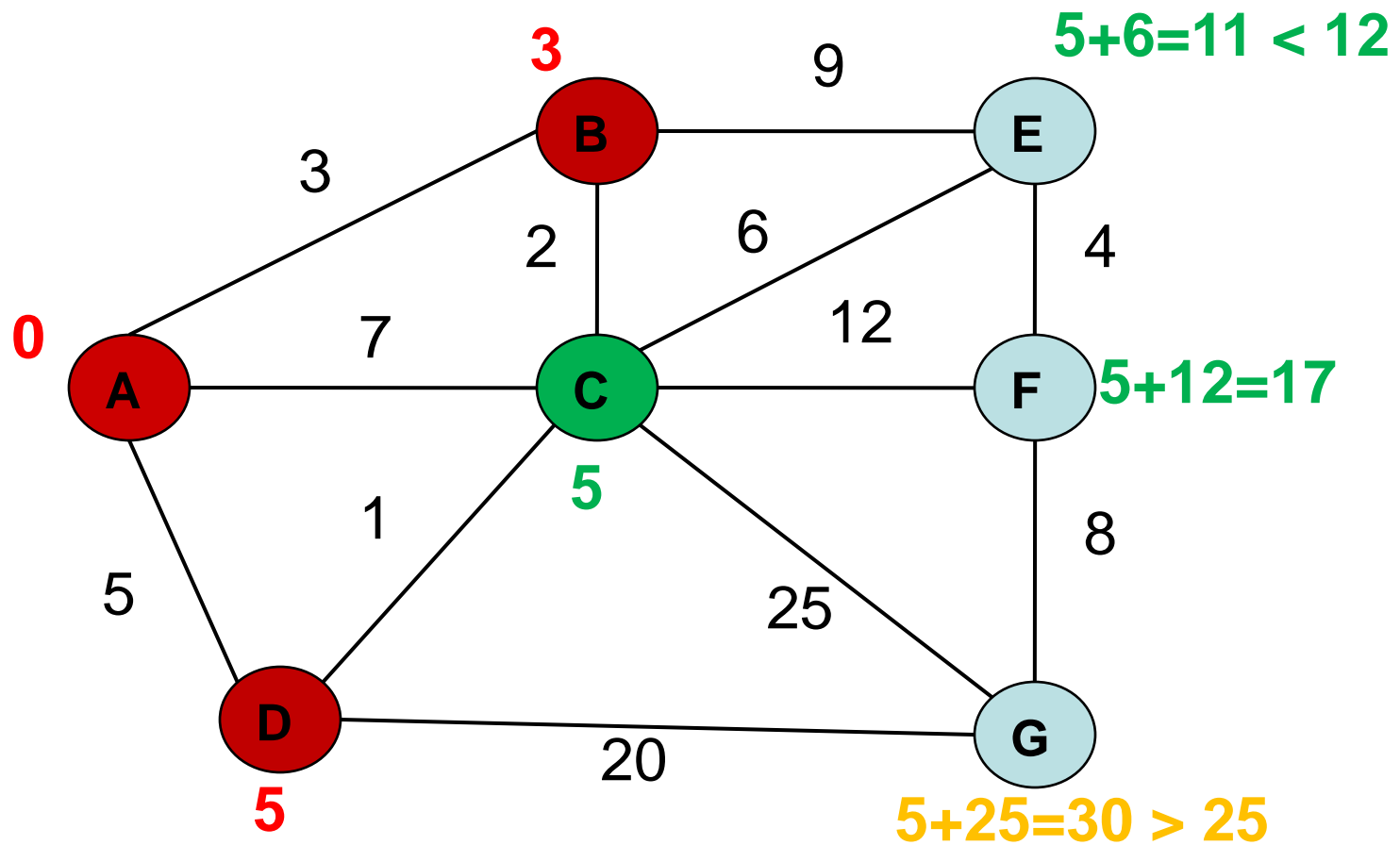
Dijkstra's algorithm



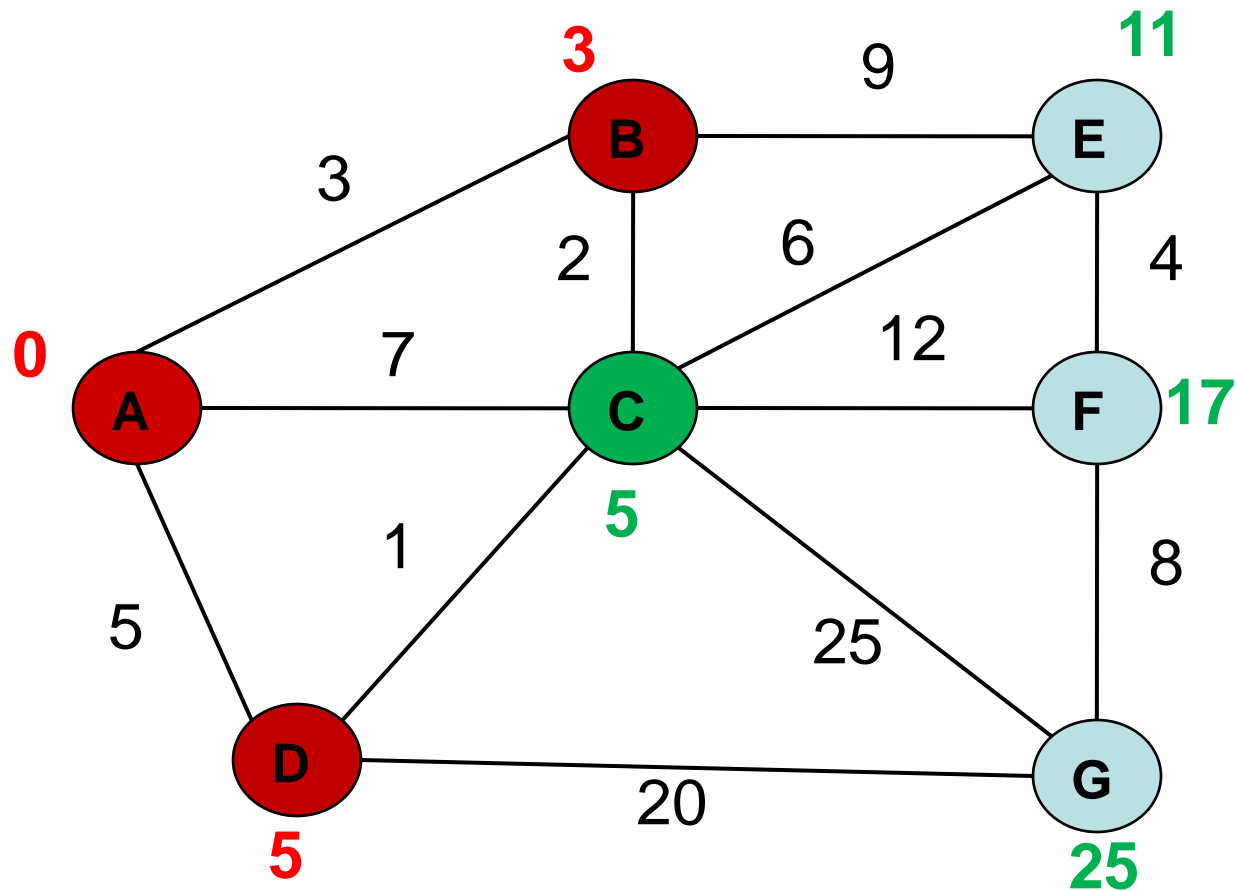
Dijkstra's algorithm



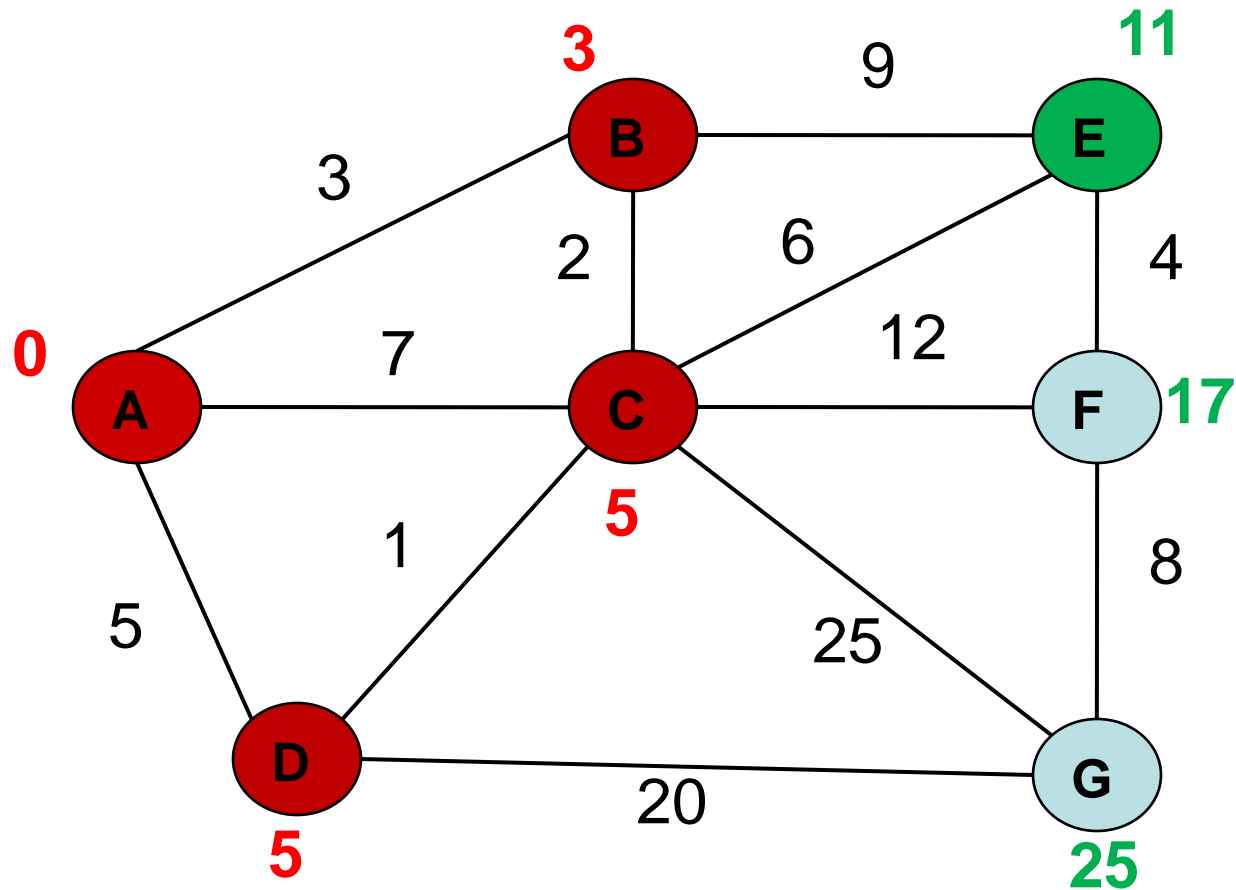
Dijkstra's algorithm



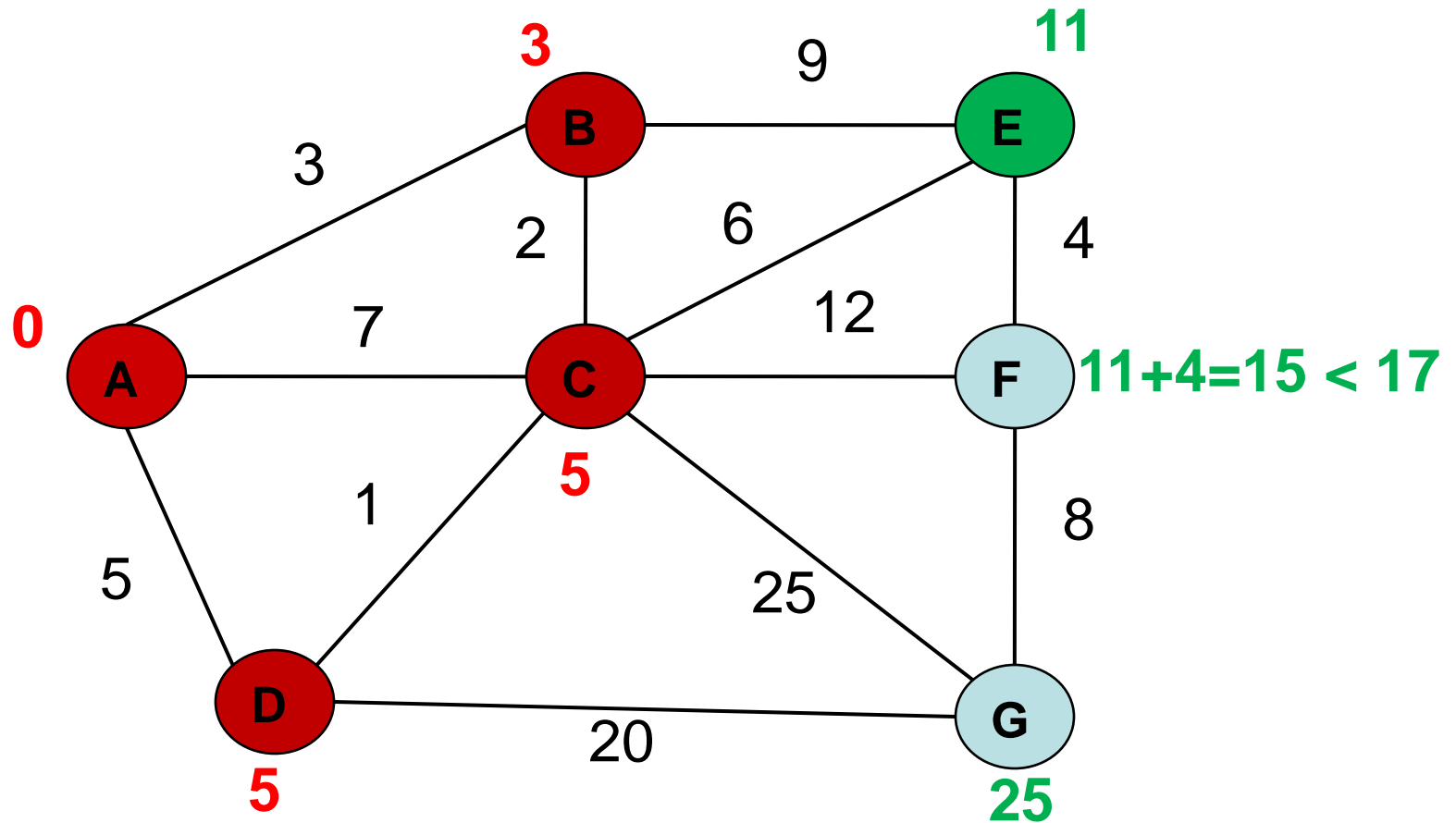
Dijkstra's algorithm



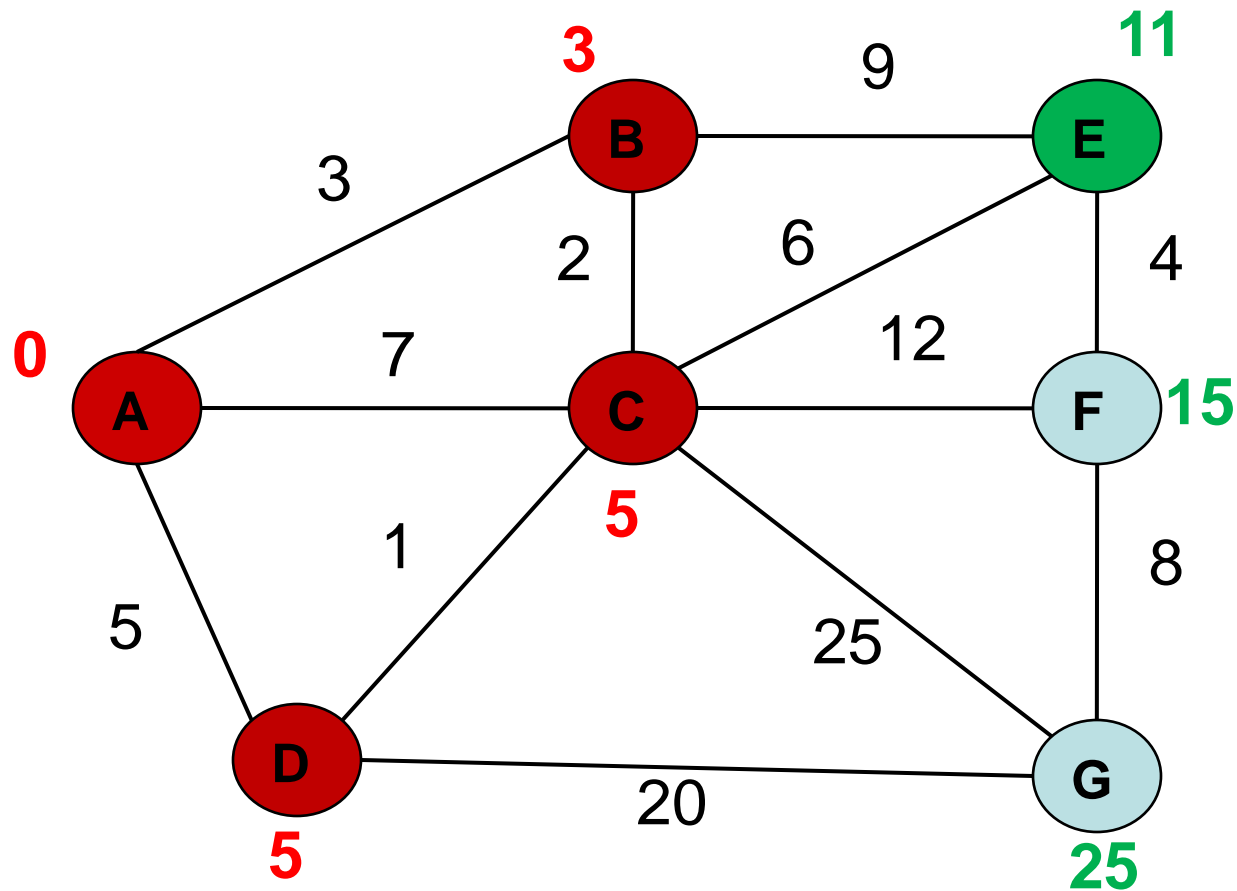
Dijkstra's algorithm



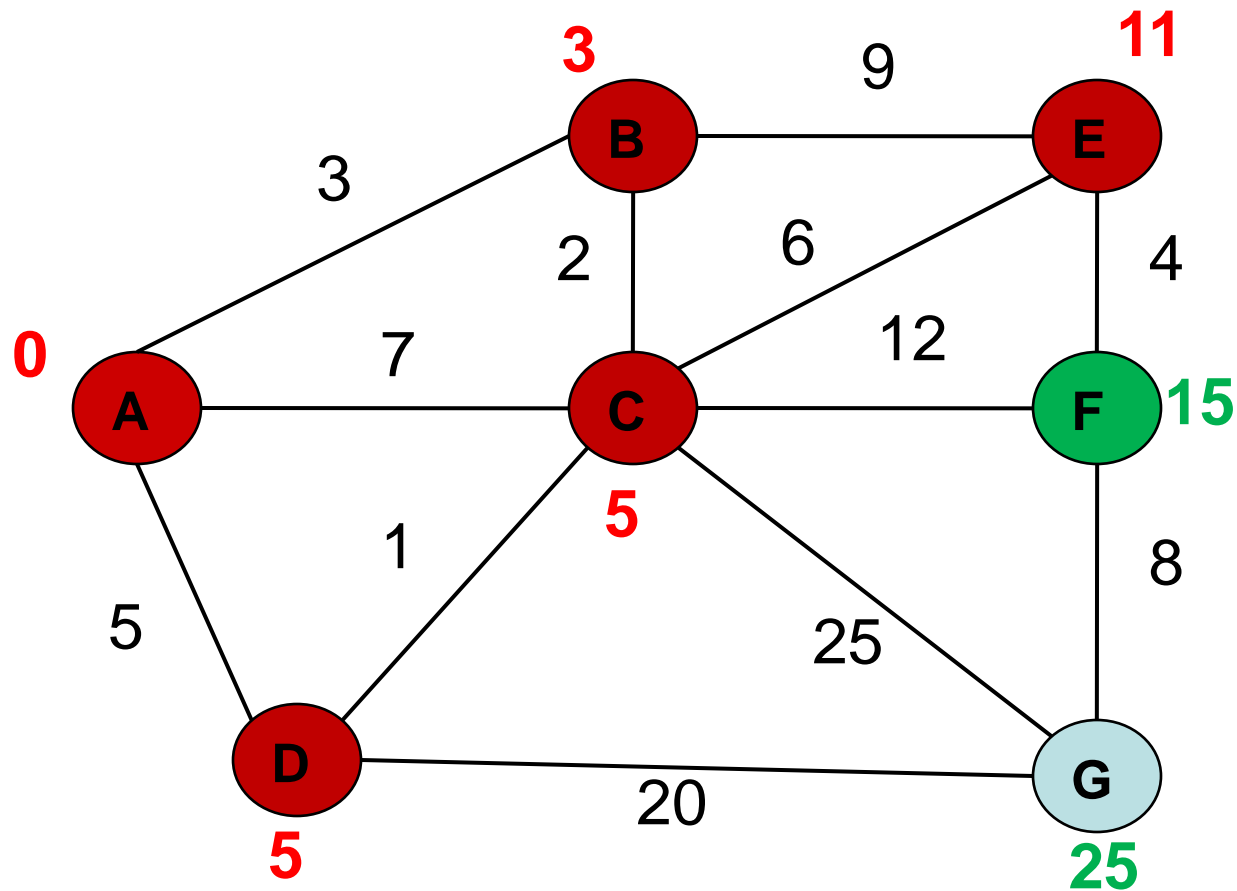
Dijkstra's algorithm



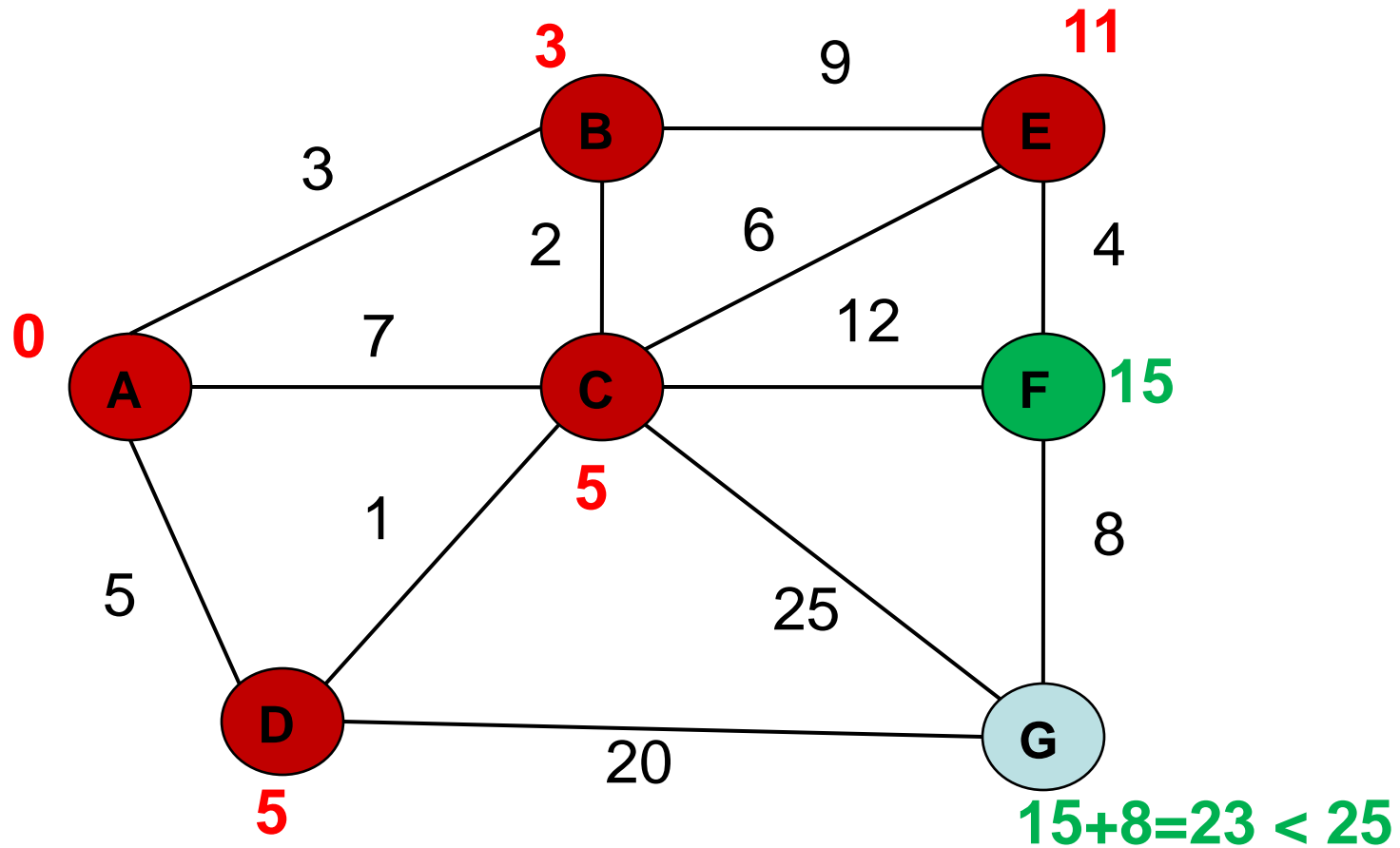
Dijkstra's algorithm



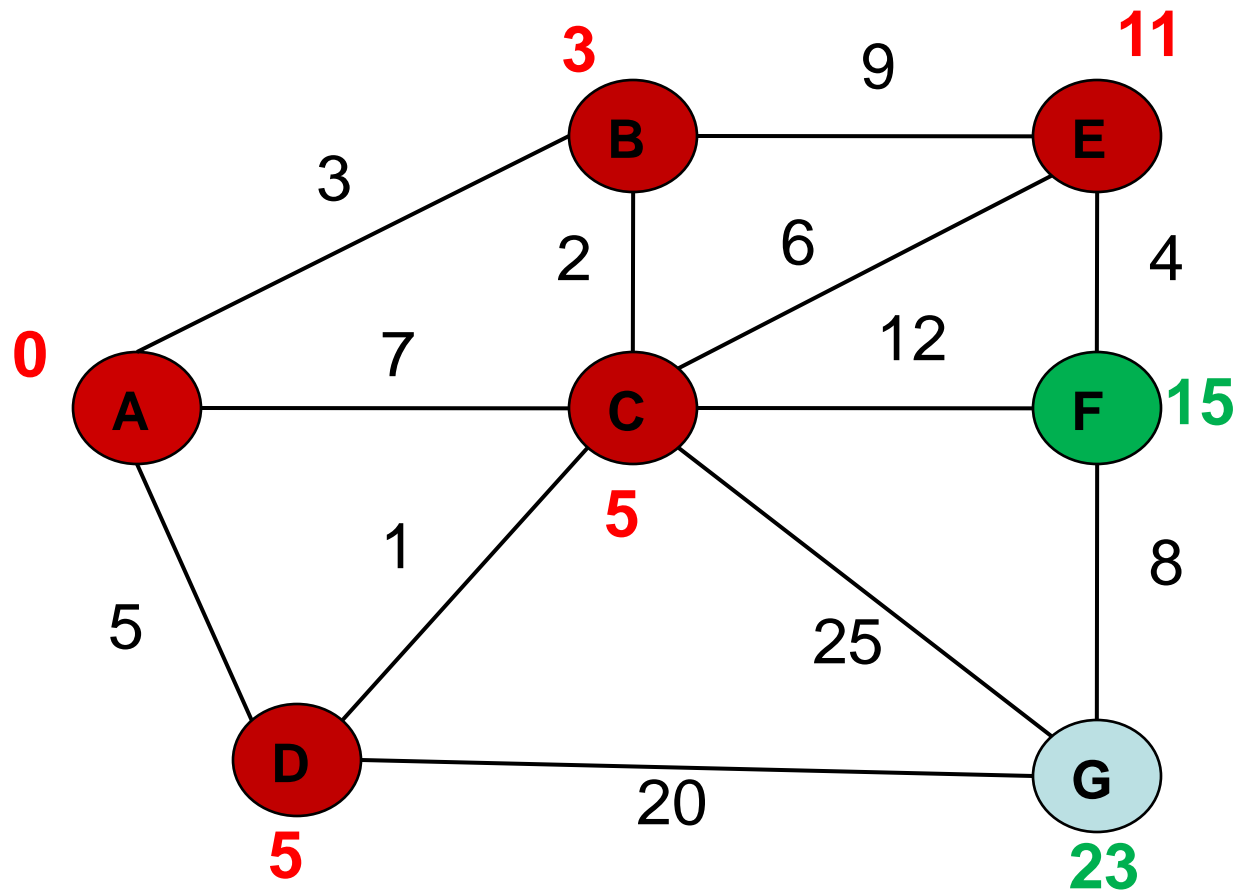
Dijkstra's algorithm



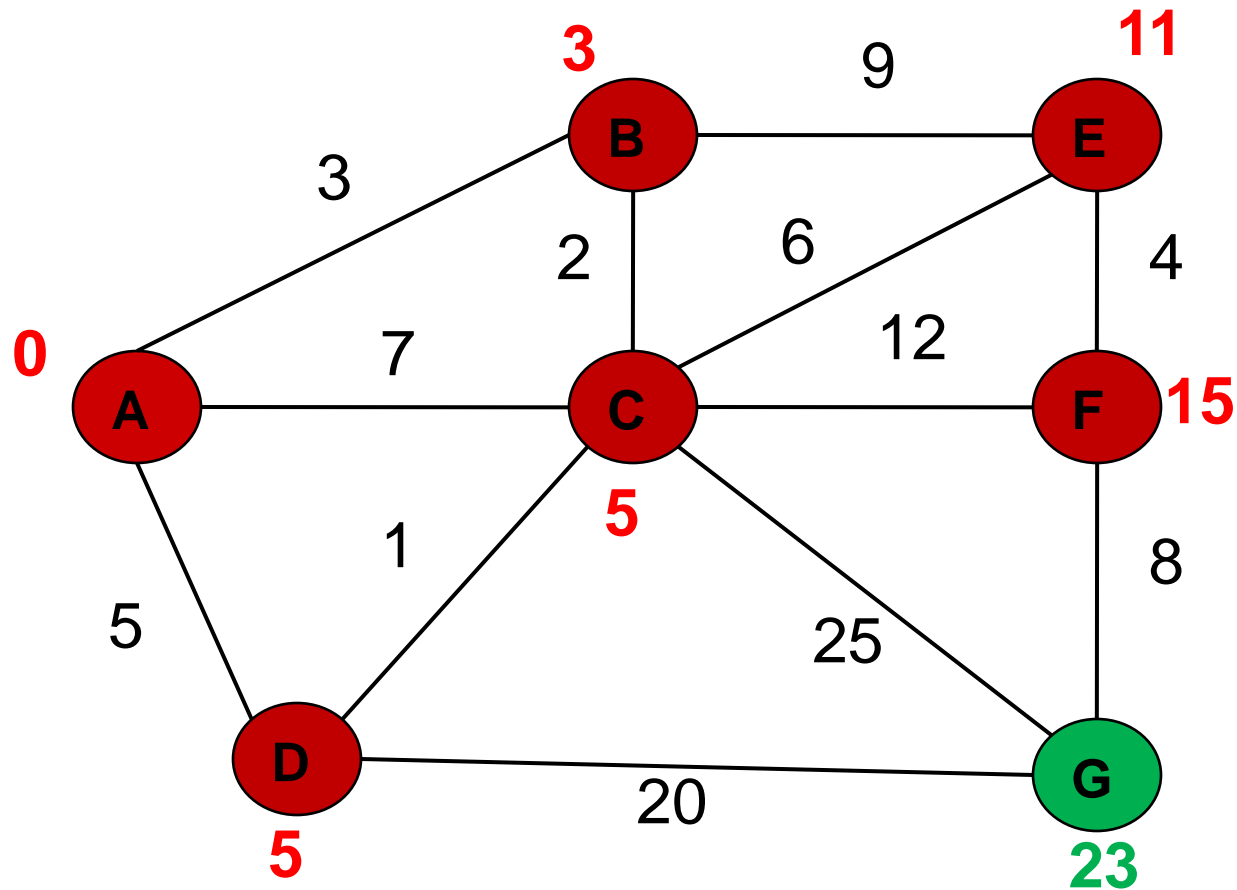
Dijkstra's algorithm



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