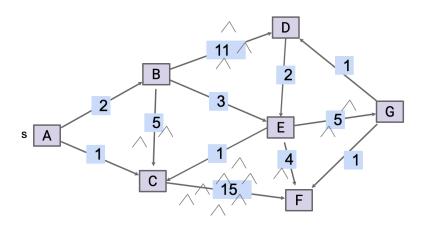
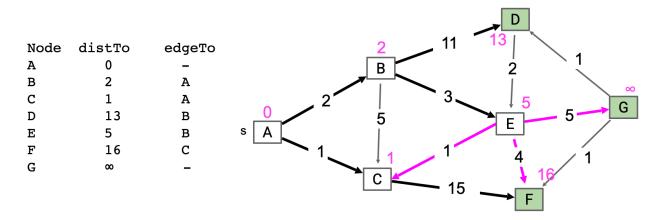
## CS62: Spring 2025 | Lecture #23 (Shortest Paths) worksheet | Jingyi Li

- 1. Find the single source shortest path from s: the shortest paths from source s to every other vertex.
  - a. What data structure does your shortest paths look like?
  - b. How many edges, as a function of V, are in your shortest paths?



2. Show distTo, edgeTo, and fringe after relaxing on edge E.



Fringe: [(D: 13), (F: 16), (G: ∞)]

3. Run Dijkstra's algorithm to generate the shortest path tree from s below. Also keep track of distTo and edgeTo.

