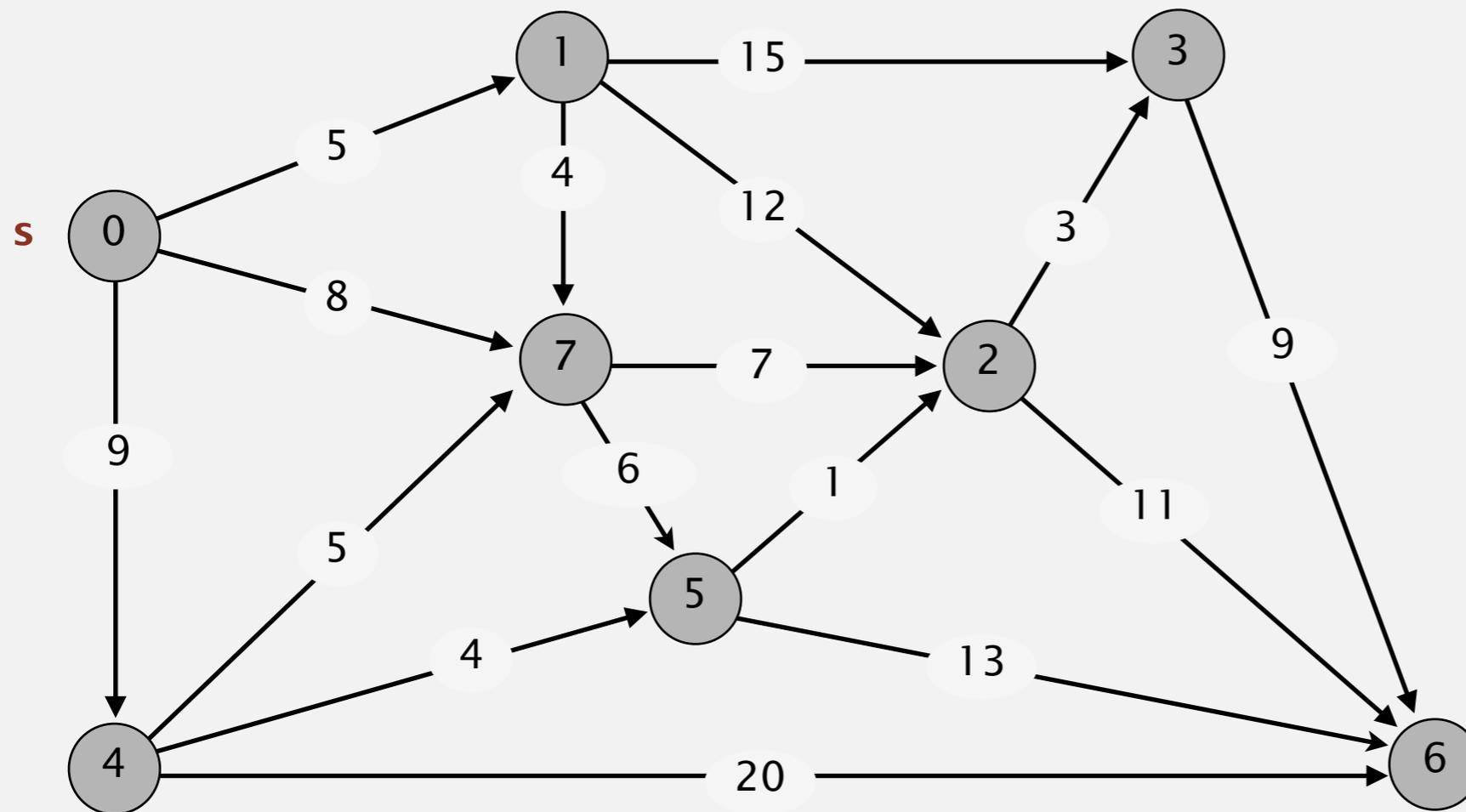


Dijkstra's algorithm demo

- Consider vertices in increasing order of distance from s (non-tree vertex with the lowest $\text{distTo}[]$ value).
- Add vertex to tree and relax all edges adjacent from that vertex.



| | |
|-----|------|
| 0→1 | 5.0 |
| 0→4 | 9.0 |
| 0→7 | 8.0 |
| 1→2 | 12.0 |
| 1→3 | 15.0 |
| 1→7 | 4.0 |
| 2→3 | 3.0 |
| 2→6 | 11.0 |
| 3→6 | 9.0 |
| 4→5 | 4.0 |
| 4→6 | 20.0 |
| 4→7 | 5.0 |
| 5→2 | 1.0 |
| 5→6 | 13.0 |
| 6→7 | 6.0 |
| 7→2 | 7.0 |

an edge-weighted digraph