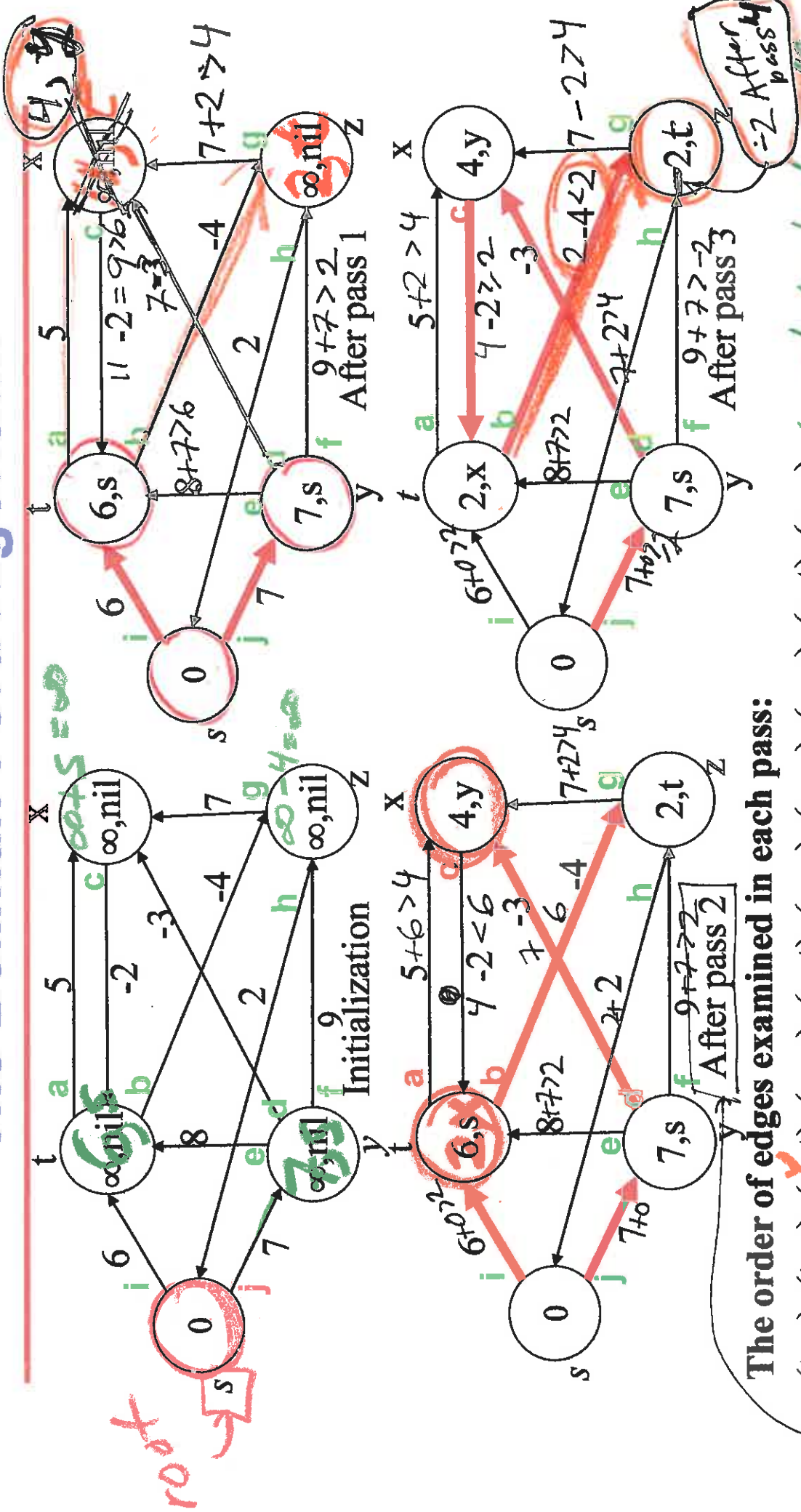


Find shortest path from root S
 Give rooted tree containing these shortest paths

The Bellman-Ford Algorithm



The order of edges examined in each pass:

$(t, x), (t, z), (x, t), (y, x), (y, t), (y, z), (z, x), (z, s), (s, t), (s, y)$ ← alphabetically labeled 1

CS223 Advanced Data Structures and Algorithms

<https://www.cs.montana.edu/csci232/PPT/CS223-0311-Bellman.ppt>

all ~~shortest~~ ^{minimal weight} paths of length ≤ 2 from root S
 but there may be lower weight paths w/ more edges