

4) Breadth-first traversal

first deal with S then deal with one of A,D,B

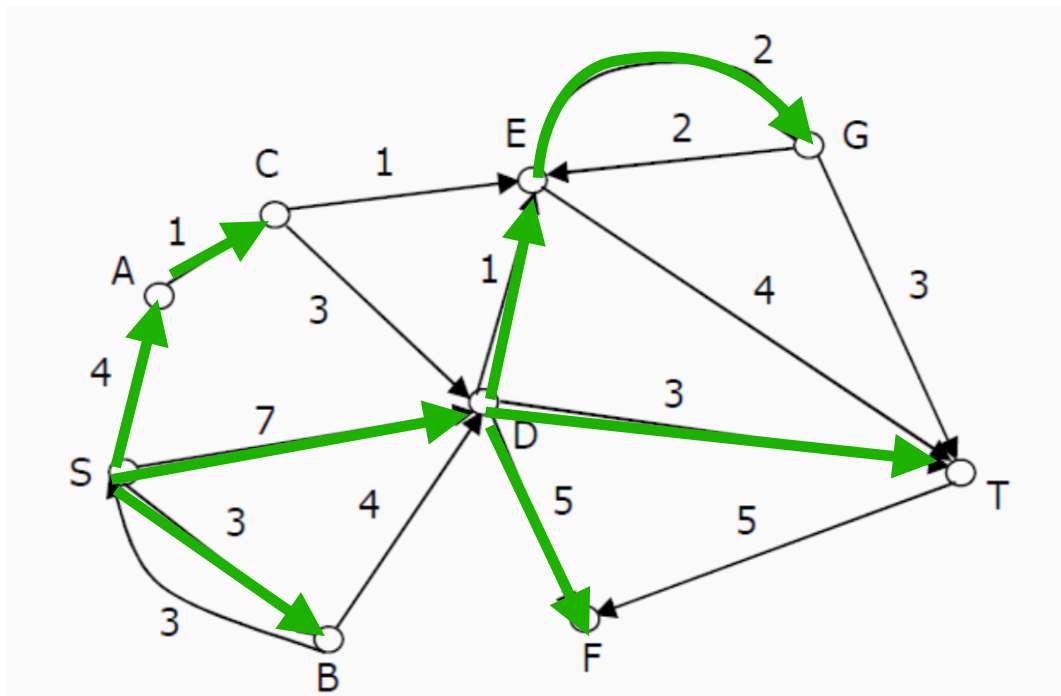
I choose A then A goes to C

After that I choose D, D goes to E, T, F

After that I choose E, E goes to G

Then it finished.

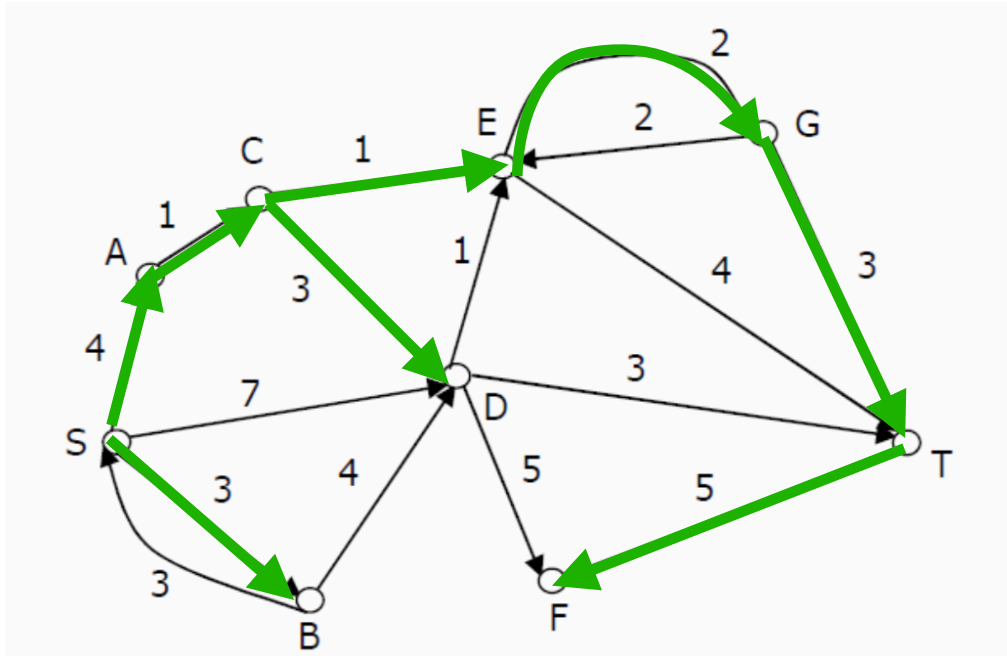
S, A, D, B, C, E, T, F, G



5)

a) depth-first

S, A, C, E, G, T, F, D, B



b) preorder

S = 1
A = 2
C = 3
E = 4
G = 5
T = 6
F = 7
D = 8
B = 9

c) postorder

S = 1
A = 1
C = 1
E = 1
G = 1
T = 1
F = 1
D = 4
B = 7

d) tree arcs = SA, AC, CE, CD, EG, GT, TF, SB
cross arcs = -
forward arcs = SD, DT, DF, ET, BD
backward arcs = GE, BS,

6) Topological ordering

We take nodes in the order = A, G, B, D, C, E, F

