Midderm 1 S2 DFS

Stack: []

This is an example of hew DFS will vertice using the starting vertex S, when it here a charae of order.

[s]

s[v,u,w]

v[u,w]

[w, u, w]

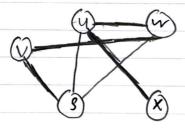
w[u,w]

[u,u,w]

u[u,w]

[x, u, w]

x[u,w]



• DFS will not packed the set of T as an ortput of DFS because DFS by desimilation will traverse the longest push first. The set of T= {sv, sw, su, un}, contains vertices that are not the largest pash. No matter the ordering of vertices when pushed and the steel, T connect be an ortput, because even of we were to visit s > u -> x, thut nowld mean that the edge {u, w} well exist in T, but it does not de to the desimilar of a steel being LIFO.