



- b) Sources: A and B Sinks: G and H
- a) B, A, C, E, D, F, H, G
- The graph must be in any order of the following form: {A,B}, C, {D,E}, F, {G,H}

The vertices inside the brackets can be swapped.

Since there are three sets of vertices that can be swapped which loads to two combinations of each,

there are 181 total possible orderings

3.5 function reverse (G)

Input: A lirected graph G=(V,E) in adjacency list format Output: Reverse of Araph

(reste the graph $G^{R}=(V,E^{R})$ with edge-set E^{R} for each $v \in V$:

for each will EE:

add edge (w,u) to ER

return 6°
Time complexity: O(VFE) where V is the number of vertices and E
is the number of edges in G
3.9 function two degree (adj - list)
Input: An adjacency list of the undirected graph
Output: Array containing the twodegree values for each node
n = length (adj-list) // Number of nodes
two degree = array with size n, initialize to all zeros
for u=0 to n-1:
for each v in adj_list[u]:
two degree [u]+= length (adi_list[v])
return two degree