

BFS/DFS example

Wednesday, October 19, 2022 1:18 PM



A > F???

Vioited: A,B,C,D,E,G,F To Cheek: AB (SEP DEC Step neight Step neight Step neight

DFS (depth-first seach)

Step 1: add A to toCheck and visited Step 2: remove last element (A) from toCheck; add A's neighbors to toCheck and visited Step 3: remove last element (D) from toCheck; add D's neighbor to toCheck and visited Step 4: remove last element (E) from toCheck; add E's unvisited neighbor to toCheck and visited Step 5: remove last element (G) from toCheck (has no neighbors) Step 6: remove last element (C) from toCheck; add C's unvisited neighbor to toCheck and visited

Step 7: remove last element (F) from toCheck; we are done because F is the destination