

Pseudocode of DFT

DFT(v):

visited(v) = 1

print(v)

for all w adj v:

if w is not visited:

DFT(w)

0 → initialization

1 → vertex is visited

→ Adjacency List

↳ 2E

↳ Recursion

A	B	C	D	E	F	G	visited
0	0	0	0	0	0	0	1
1	1	1	1	1			

DFT(A)

~~w = B C D~~

~~DFT(B)~~

~~w = A E~~

~~DFT(E)~~

~~w = B C G~~

~~DFT(C)~~

~~w = A E F~~

~~DFT(F)~~

~~w = C D G~~

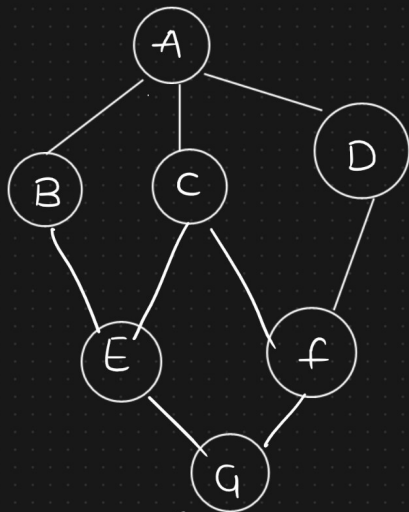
~~DFT(D)~~

~~w = A F~~

~~DFT(G)~~

~~w = E F~~

Graph



DFT →

Df T

→

~~A~~ B E C F D G

Traversal

↳ Other Results

Time complexity → $O(V+E)$

Recursion → function call

↳ Stack Data

Structure