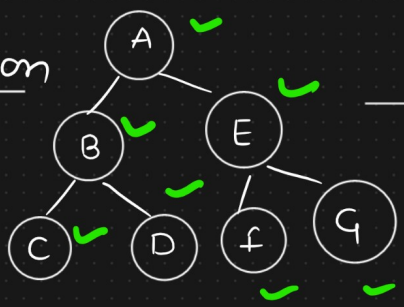
Depth first Traversal

1) Exploration
2) visit



→ A B C D E f G

↳ Preorder traversal

↳ Root
Left
Right

Storage of Data (Graph)
- Adjacency List
- Adjacency Matrix *

Adjacency list (Linked list)

- A → (1) B
- B → (3) C, A, D
- C → (1) B
- D → (1) B

→ O(E)

Sum of Degree = 2E
= 6 = 2 * 3

V = n

Adjacency Matrix

- 0 → No edge
- 1 → edge

(4 x 4) → (V x V)

	A	B	C	D
A	0	1	0	0
B	1	0	1	1
C	0	1	0	0
D	0	1	0	0

↳ $O(V^2) = O(n^2)$