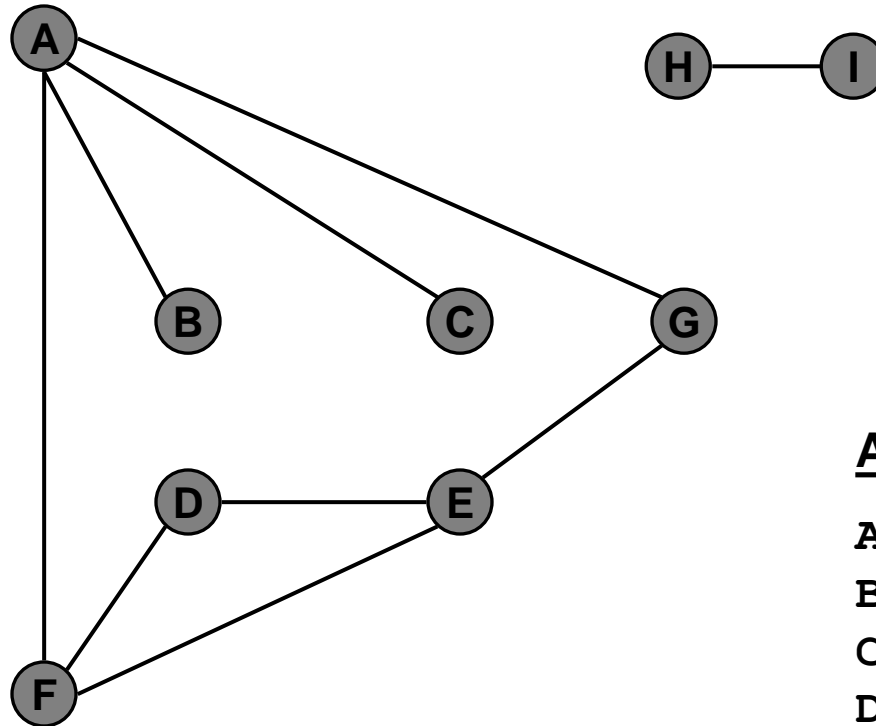


Undirected Depth First Search



Adjacency Lists

A: F C B G

B: A

C: A

D: F E

E: G F D

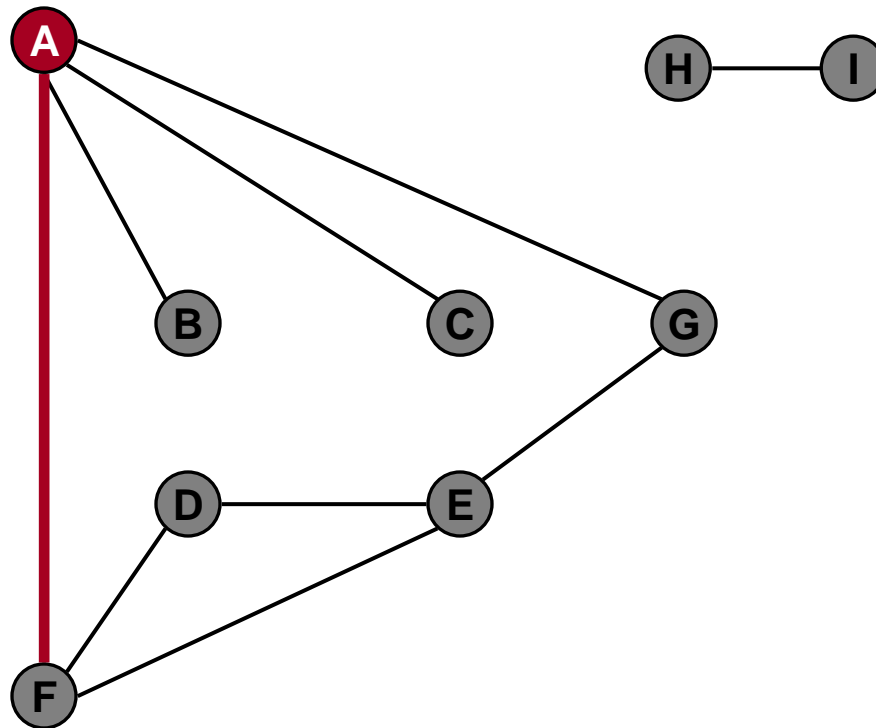
F: A E D

G: E A

H: I

I: H

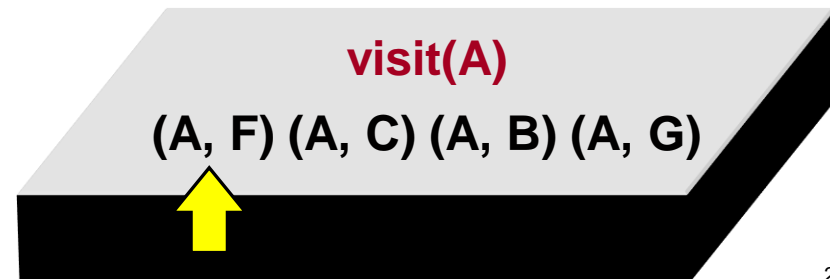
Undirected Depth First Search



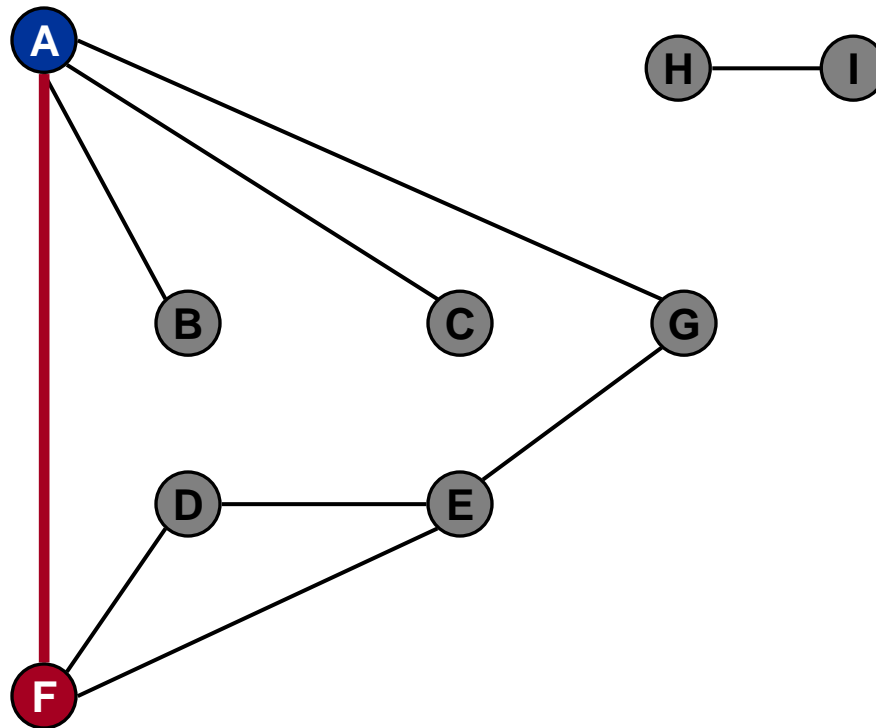
**F newly
discovered**



Stack



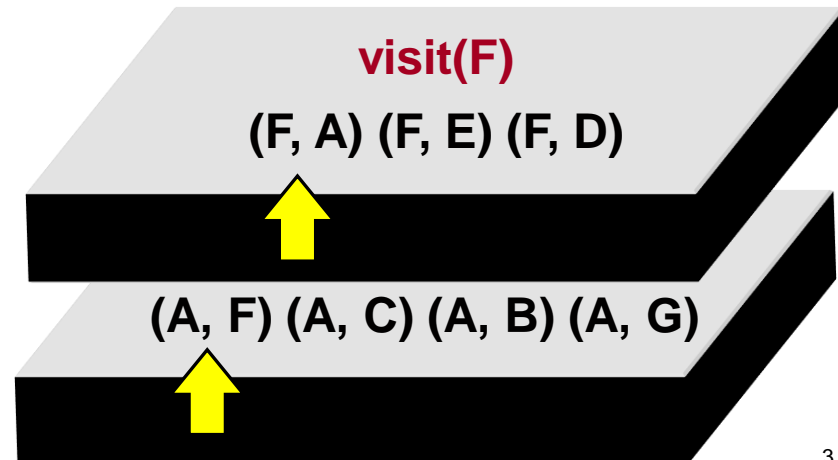
Undirected Depth First Search



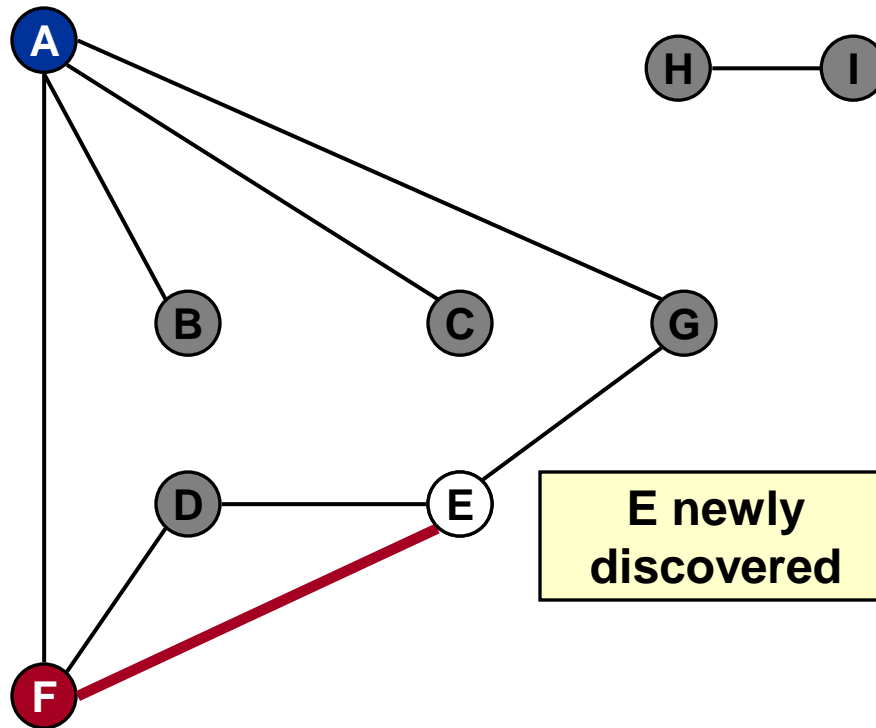
A already
marked



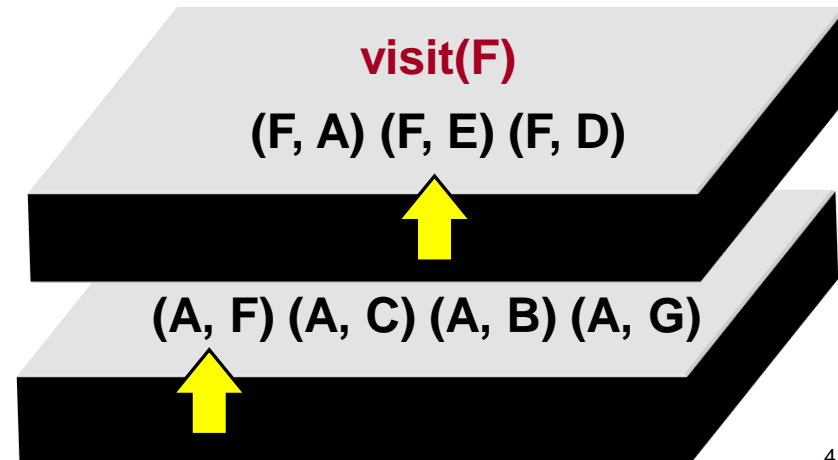
Stack



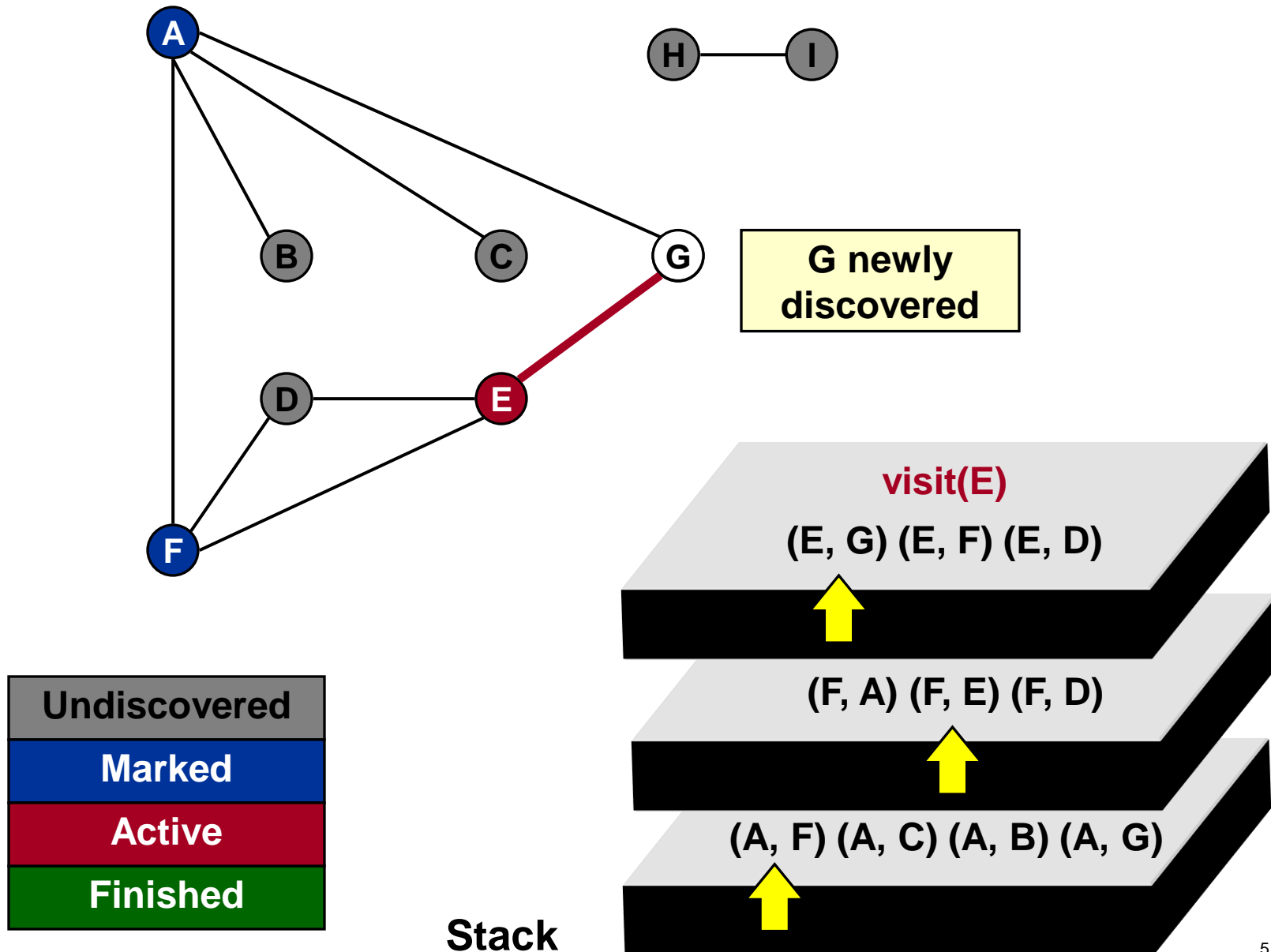
Undirected Depth First Search



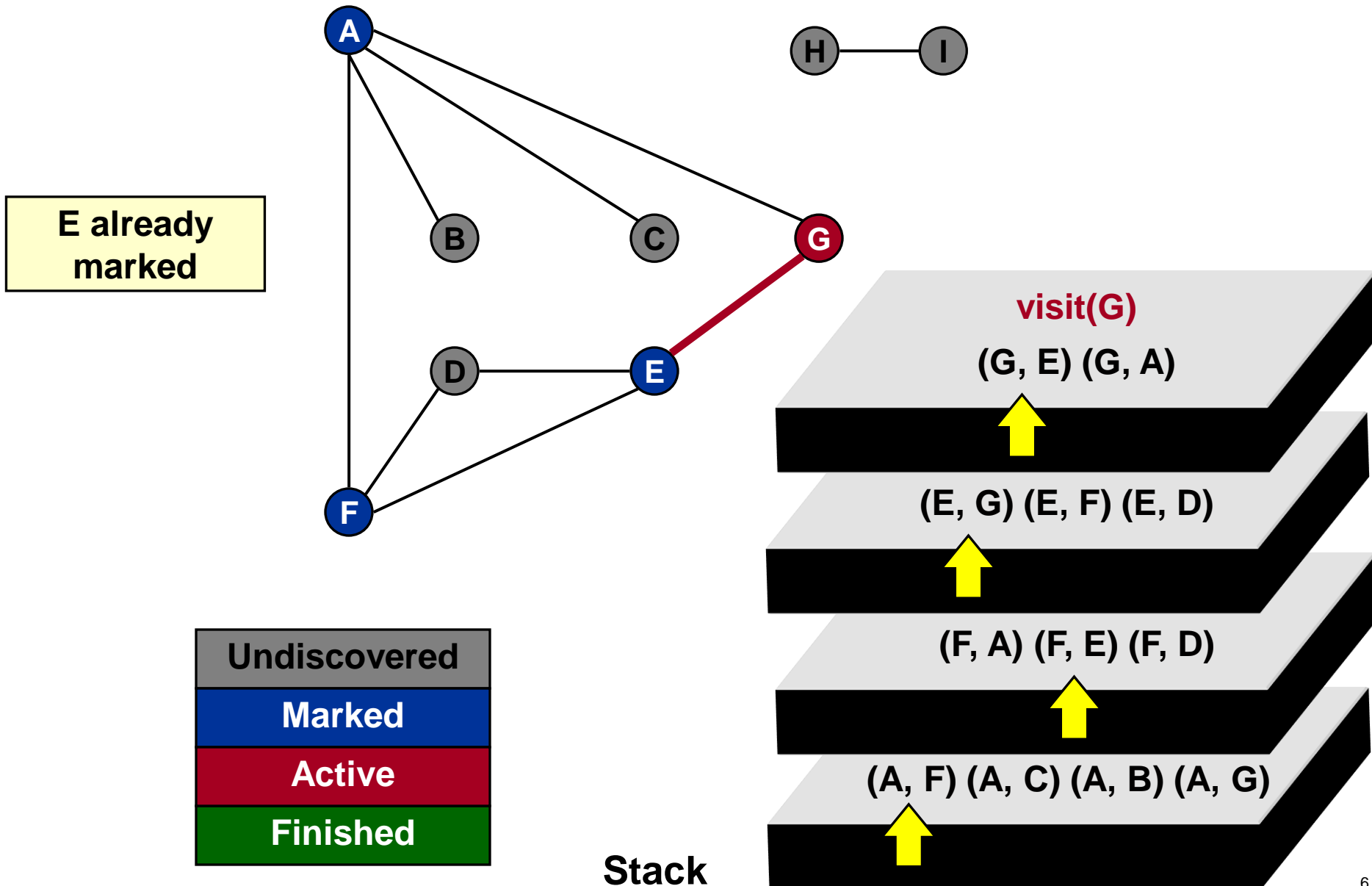
Stack



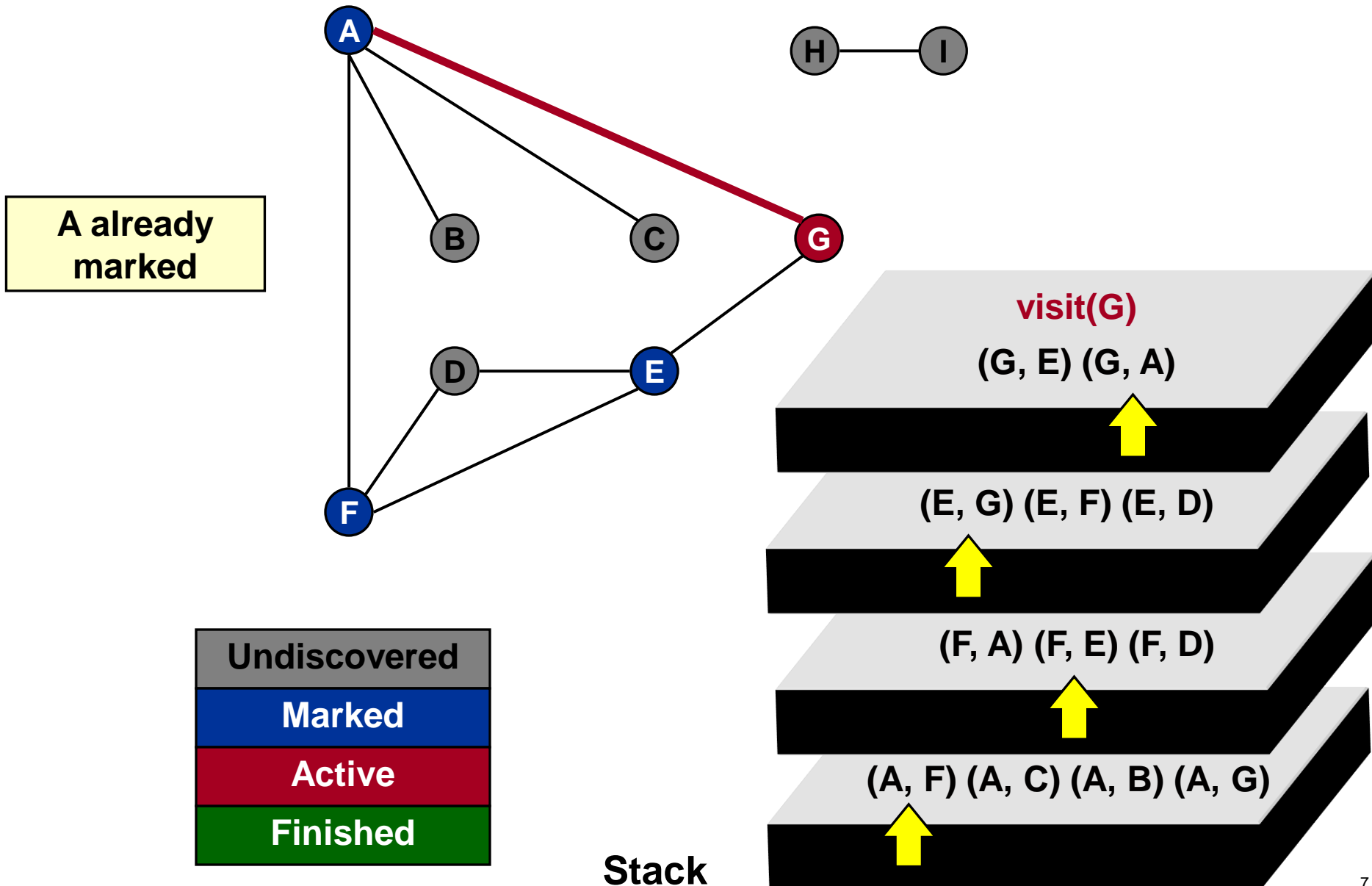
Undirected Depth First Search



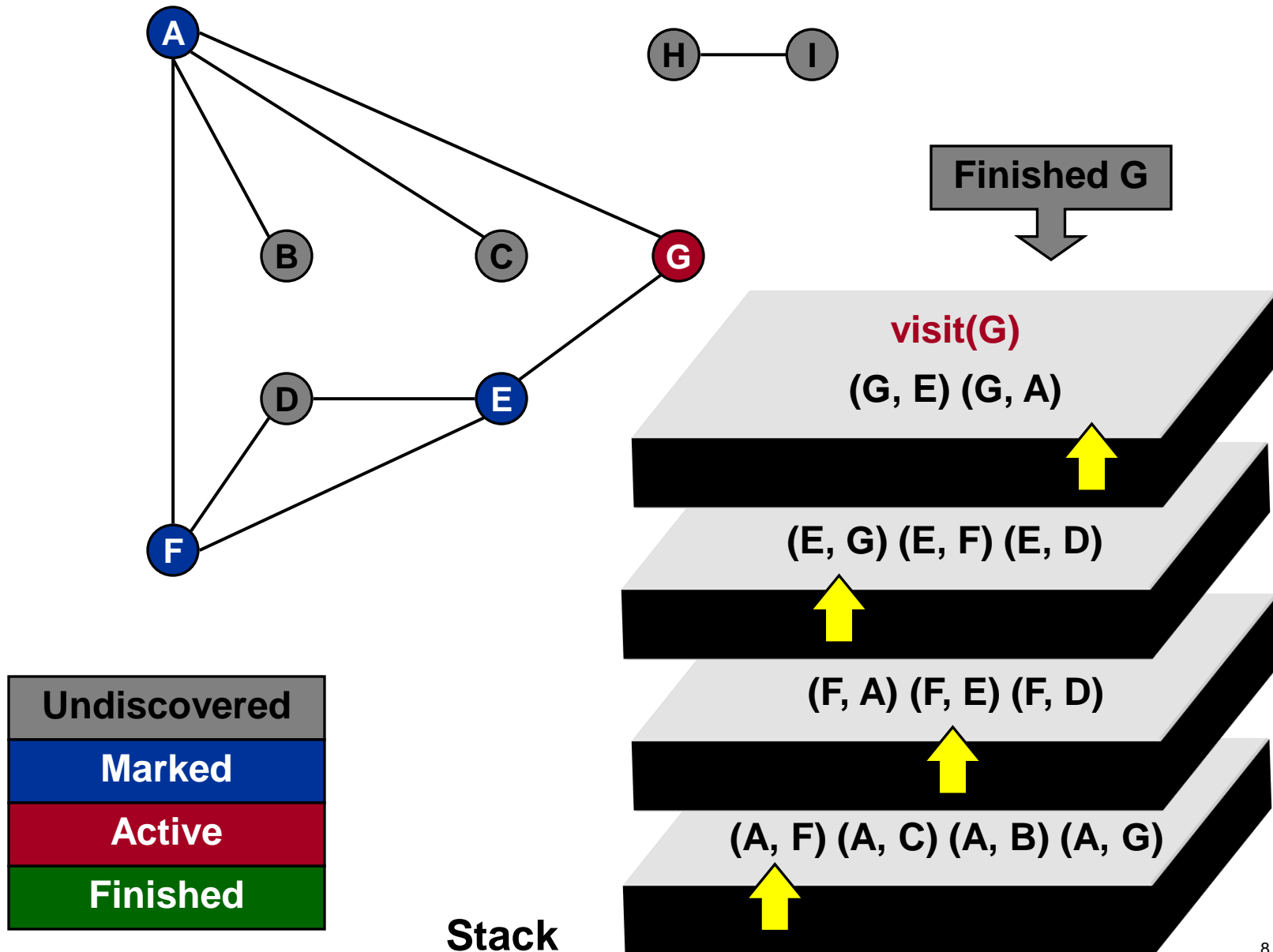
Undirected Depth First Search



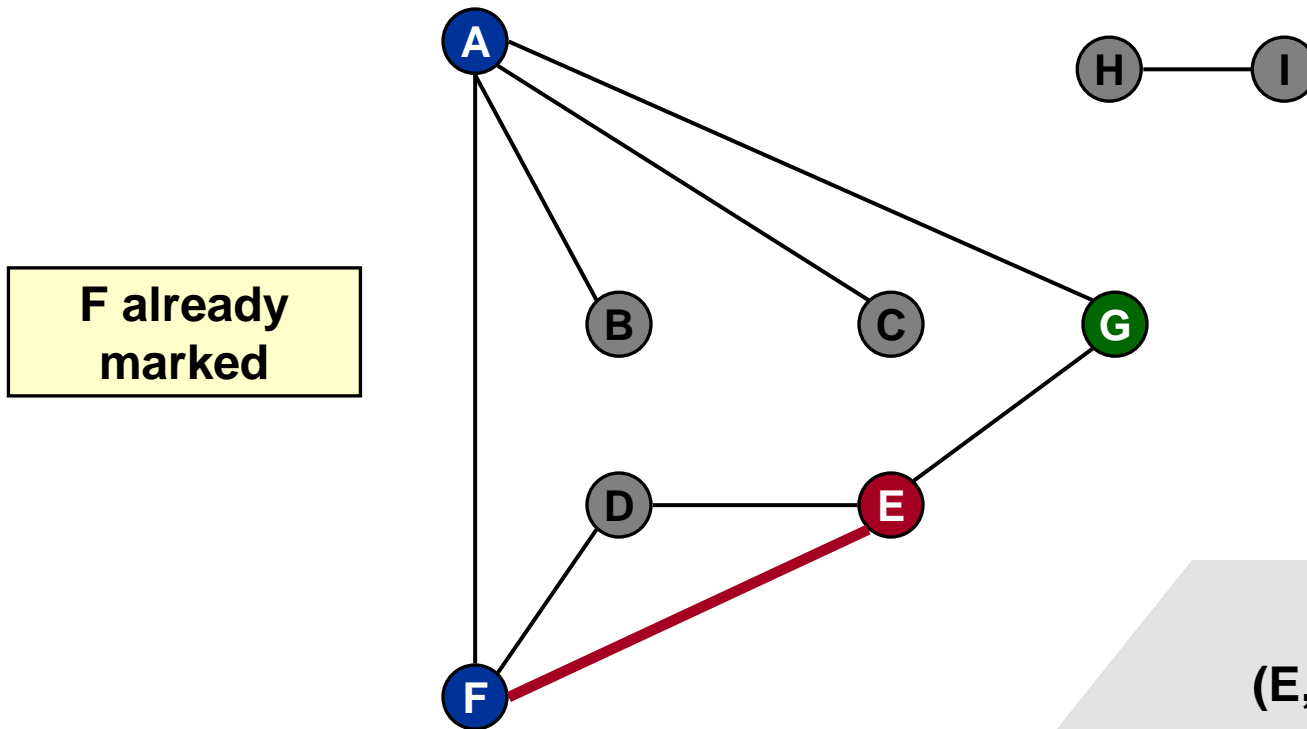
Undirected Depth First Search



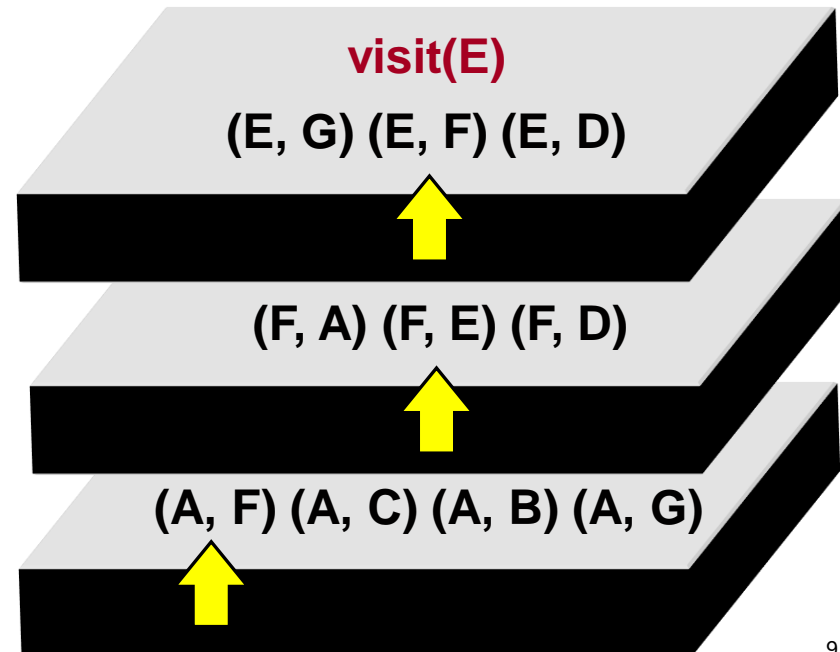
Undirected Depth First Search



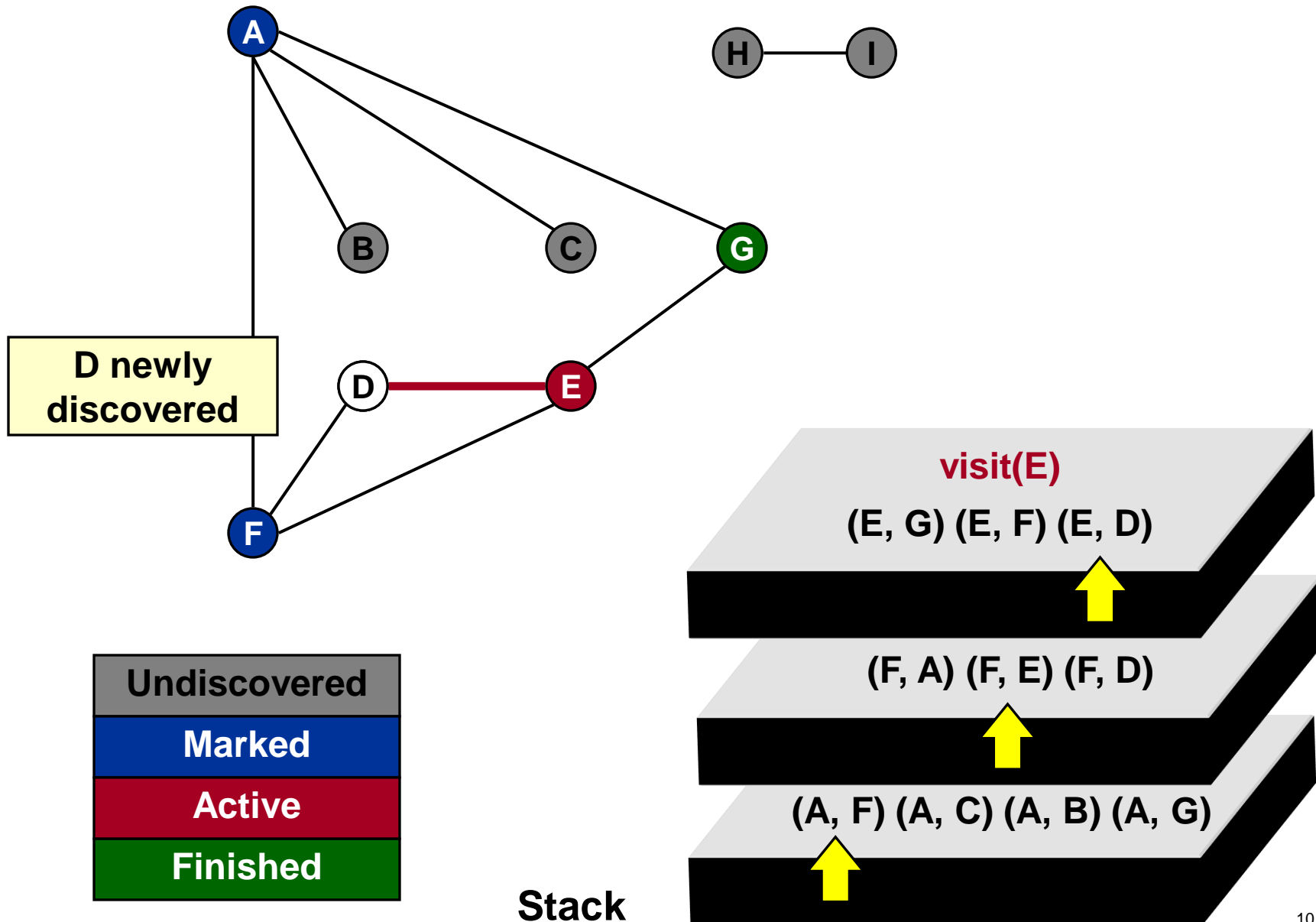
Undirected Depth First Search



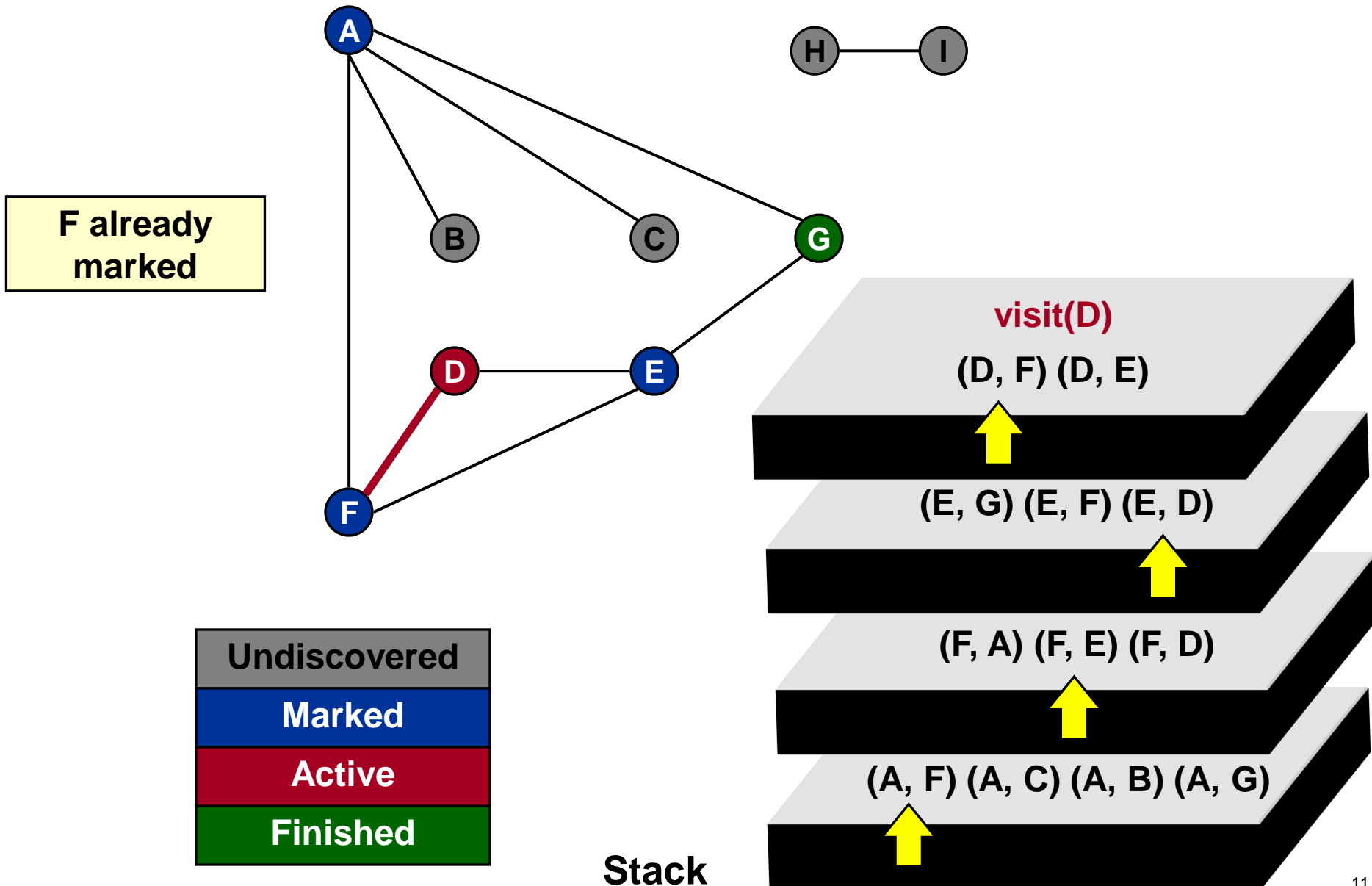
Stack



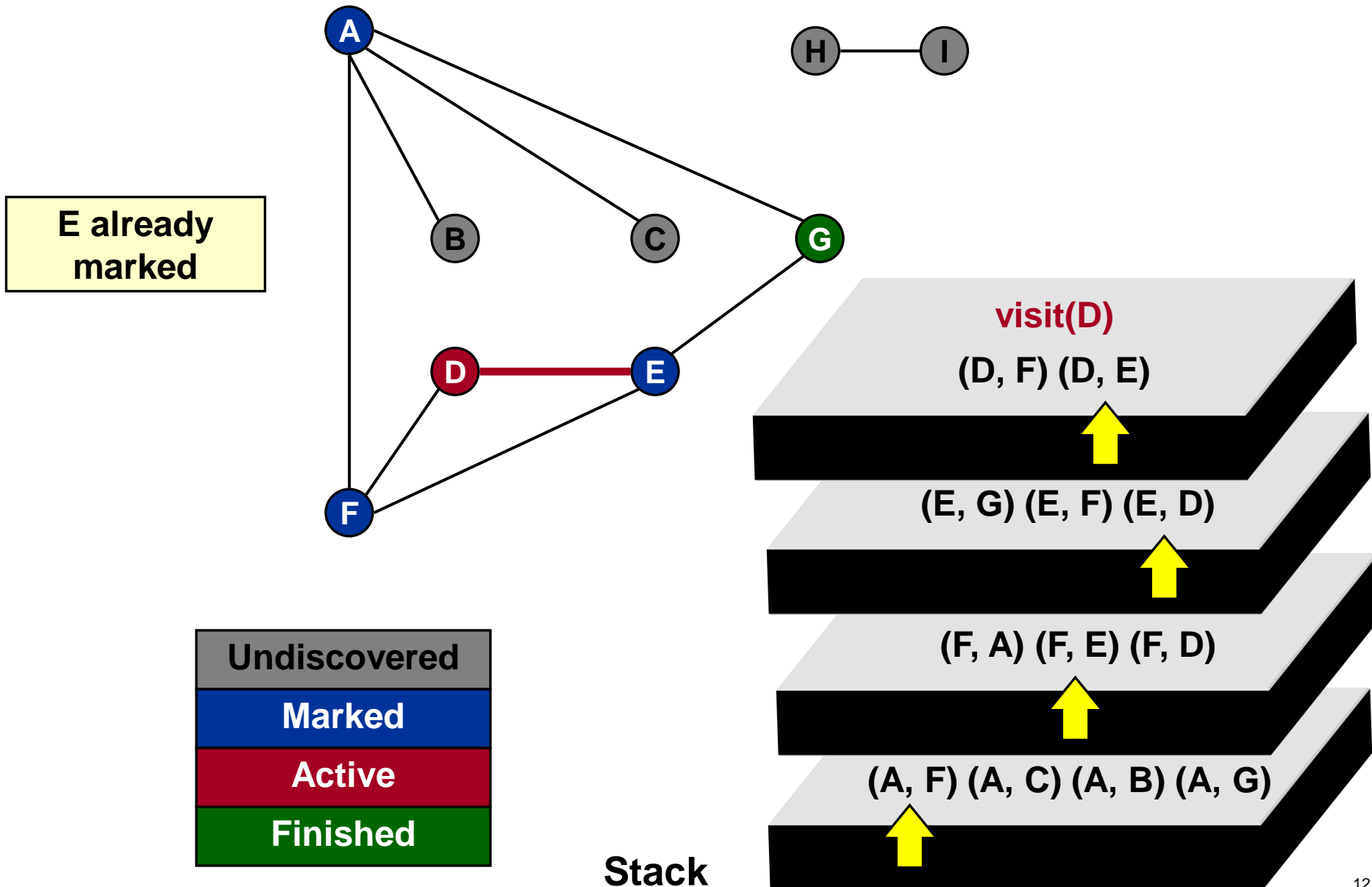
Undirected Depth First Search



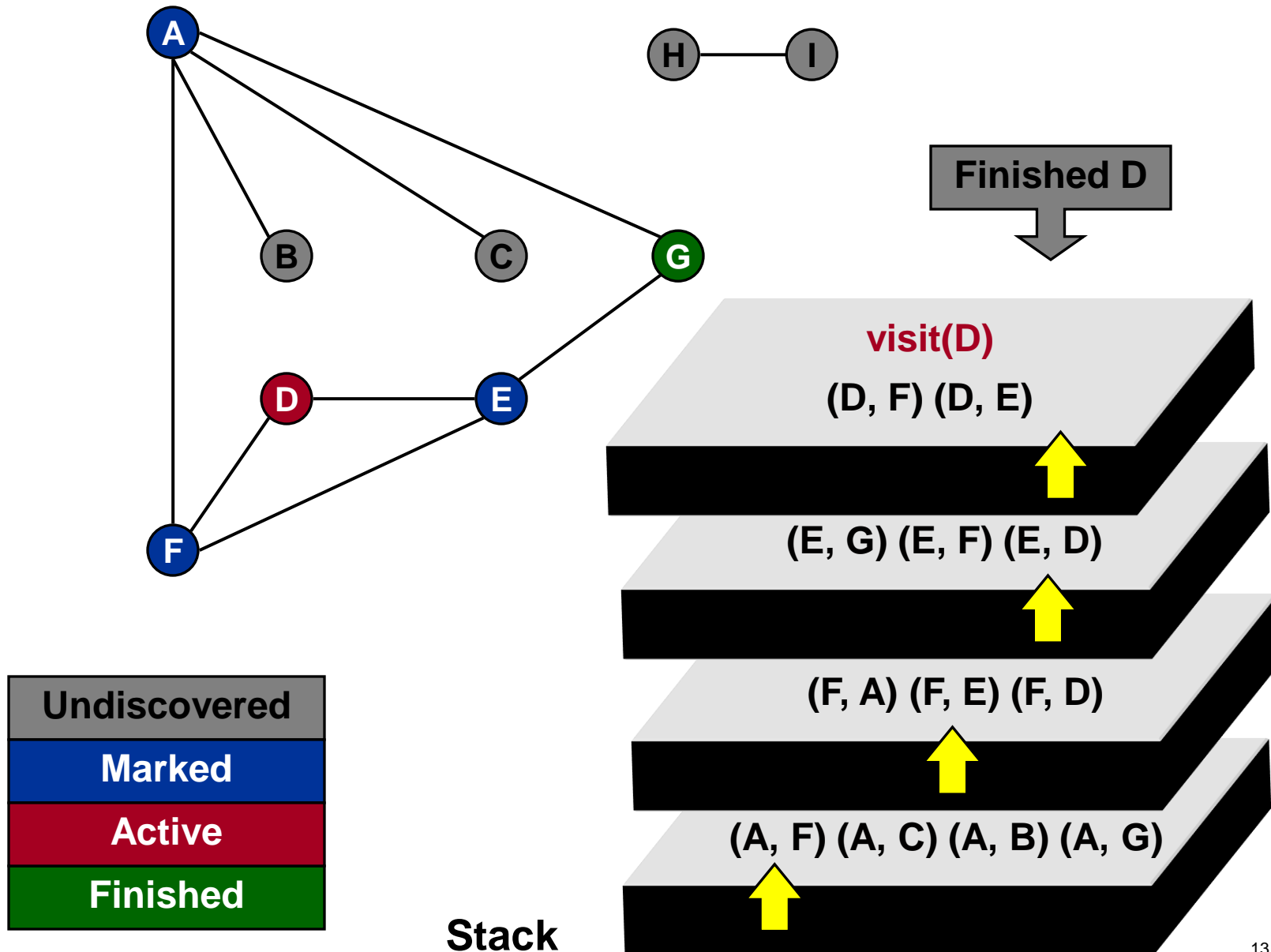
Undirected Depth First Search



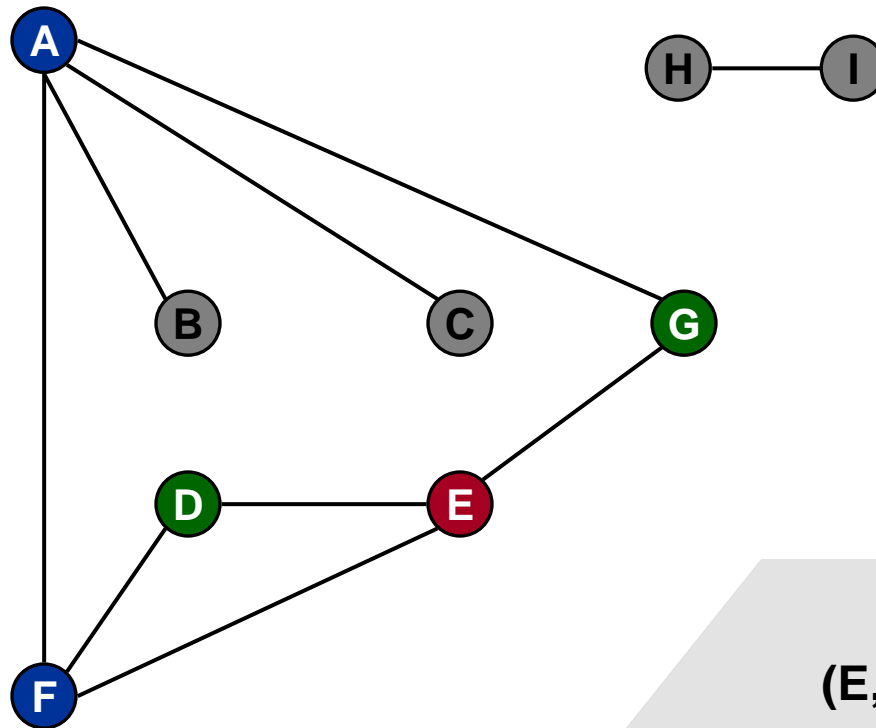
Undirected Depth First Search



Undirected Depth First Search

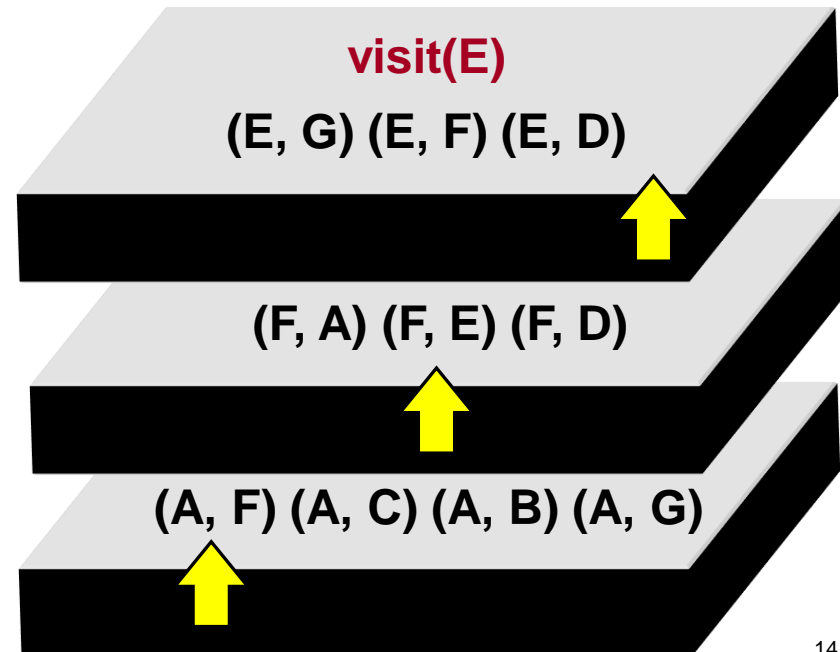


Undirected Depth First Search



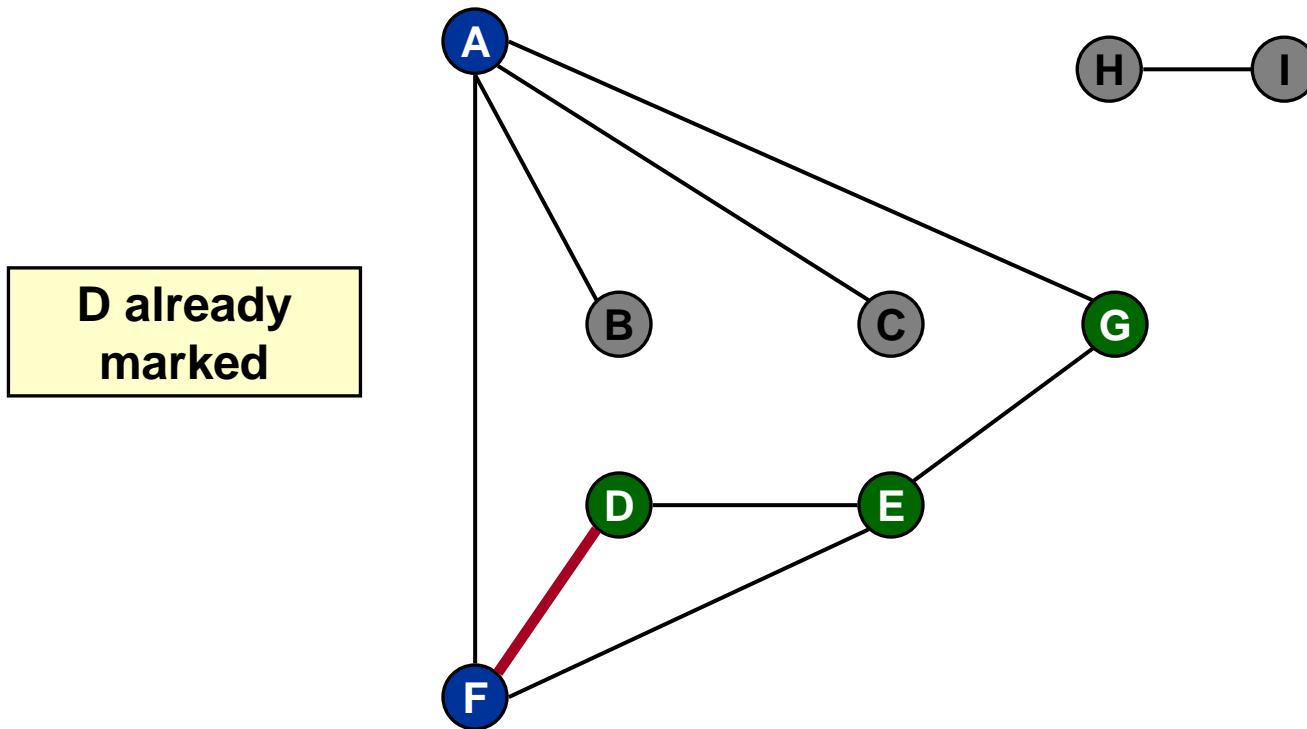
Undiscovered
Marked
Active
Finished

Finished E

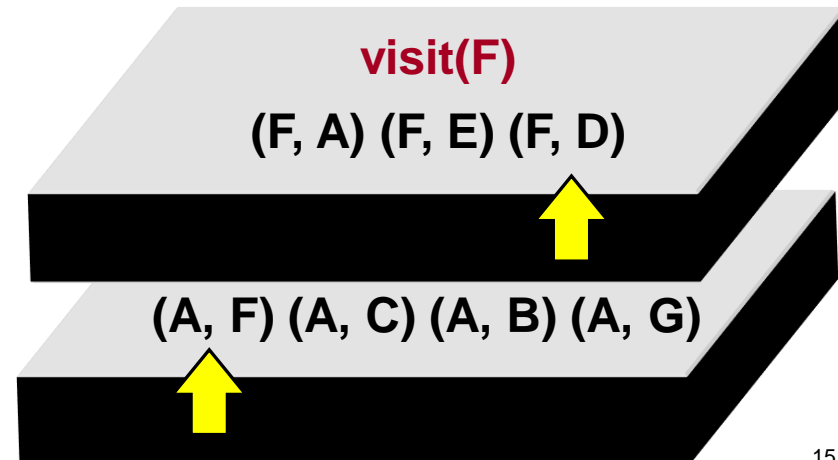


Stack

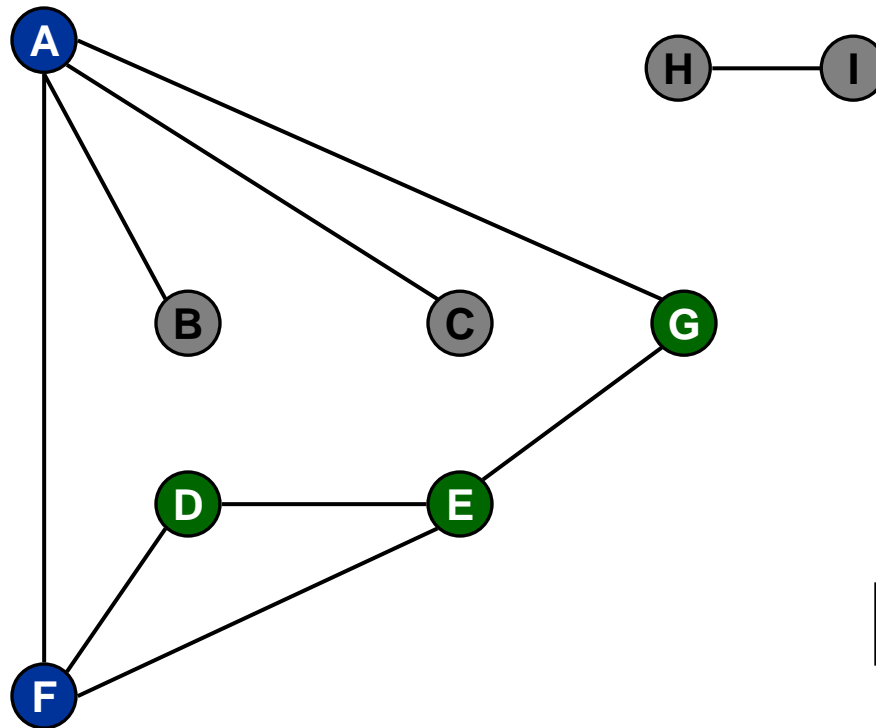
Undirected Depth First Search



Stack

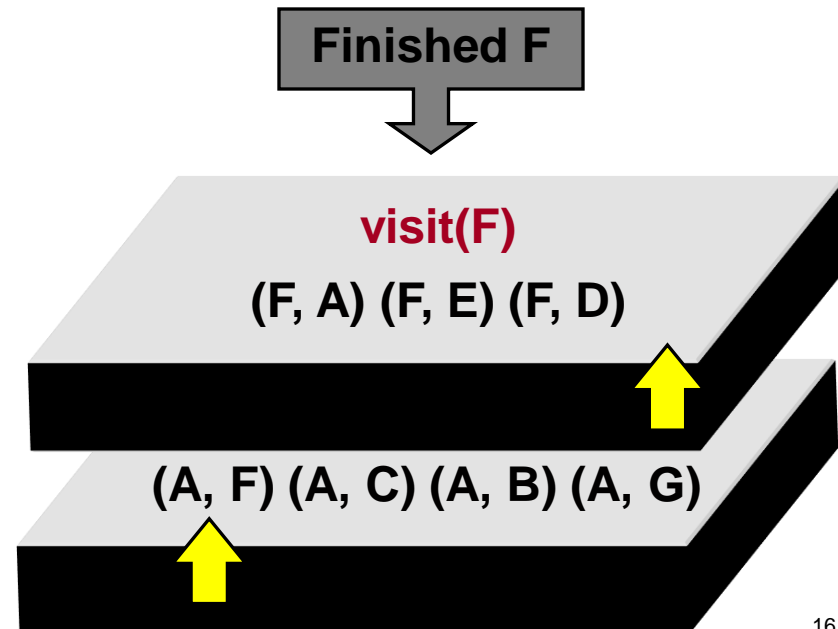


Undirected Depth First Search

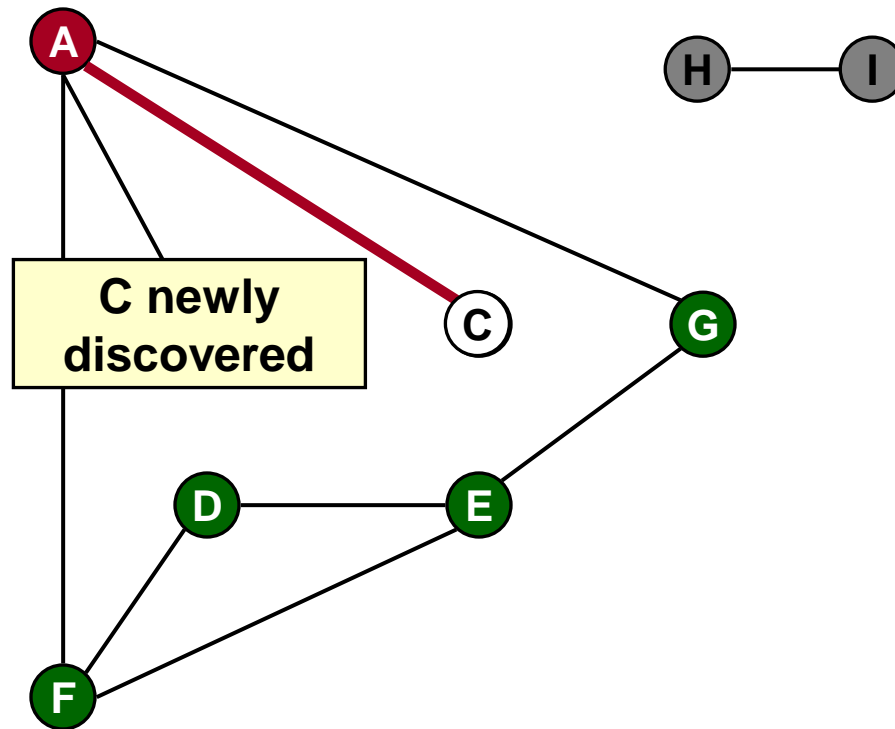


Undiscovered
Marked
Active
Finished

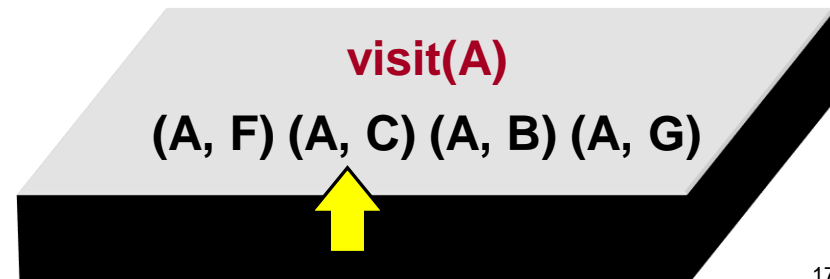
Stack



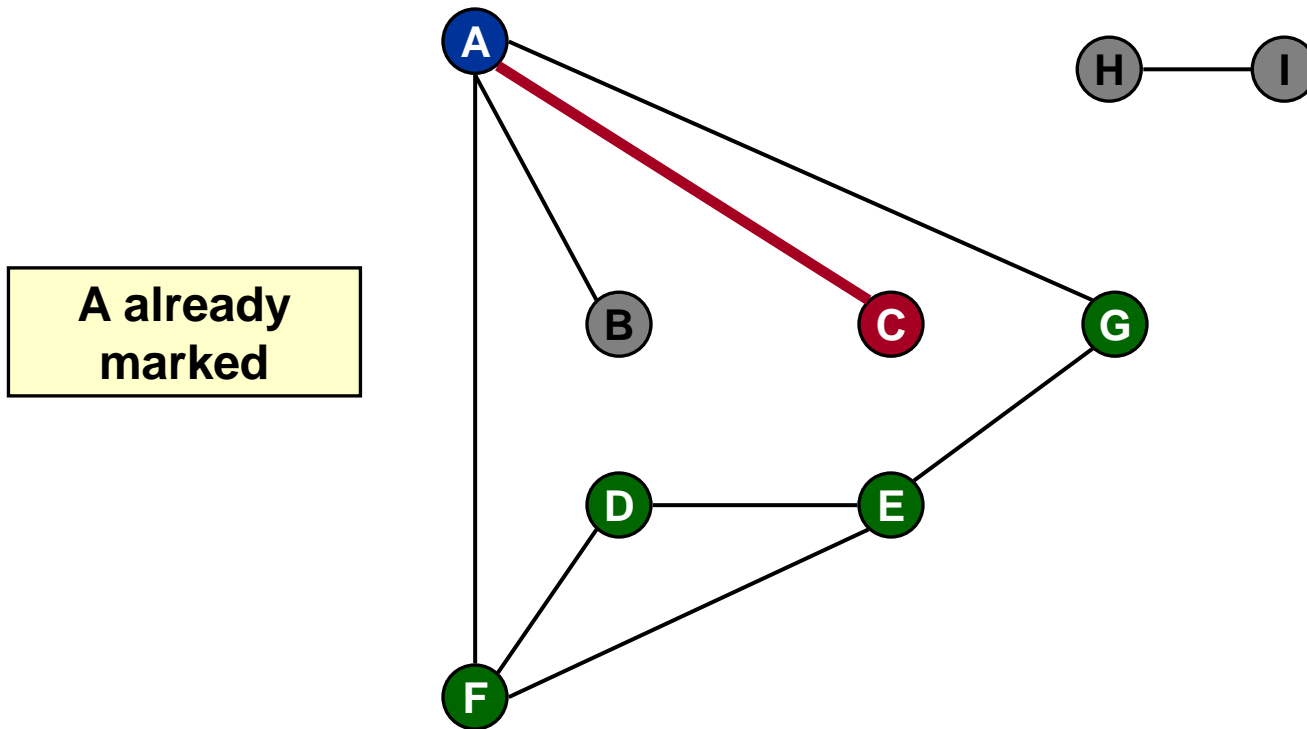
Undirected Depth First Search



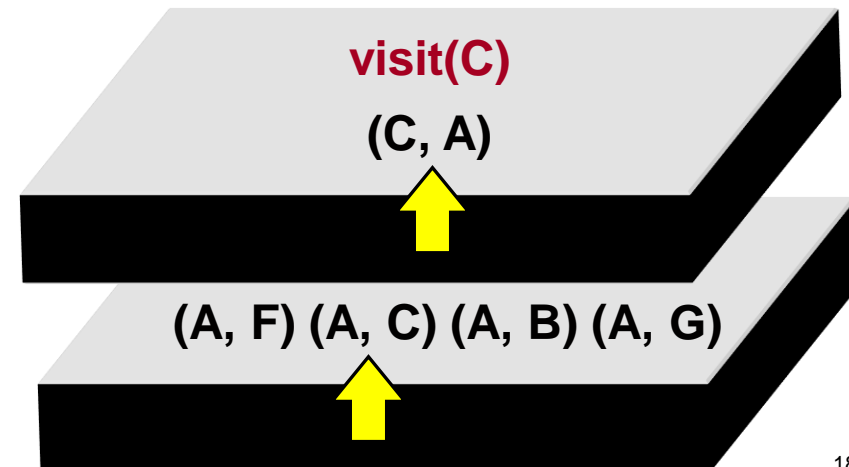
Stack



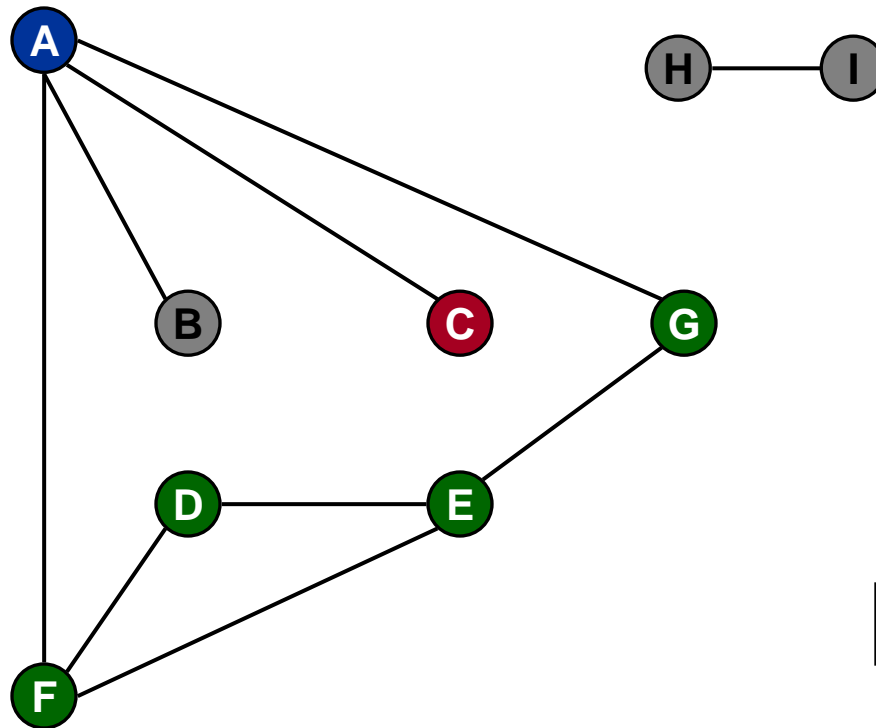
Undirected Depth First Search



Stack



Undirected Depth First Search



Undiscovered
Marked
Active
Finished

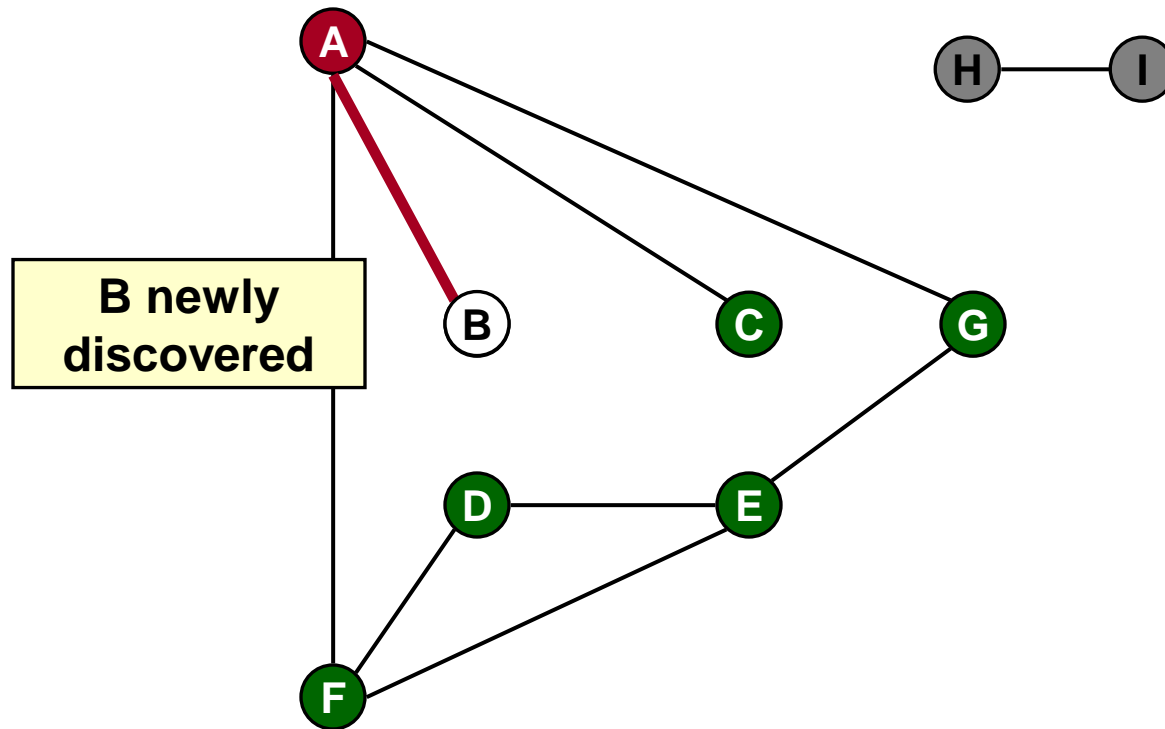
Finished C

visit(C)
(C, A)

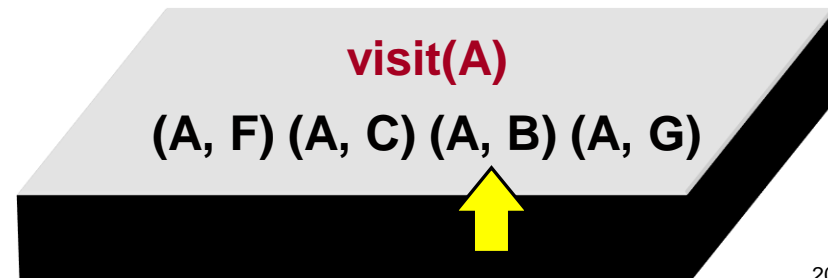
(A, F) (A, C) (A, B) (A, G)

Stack

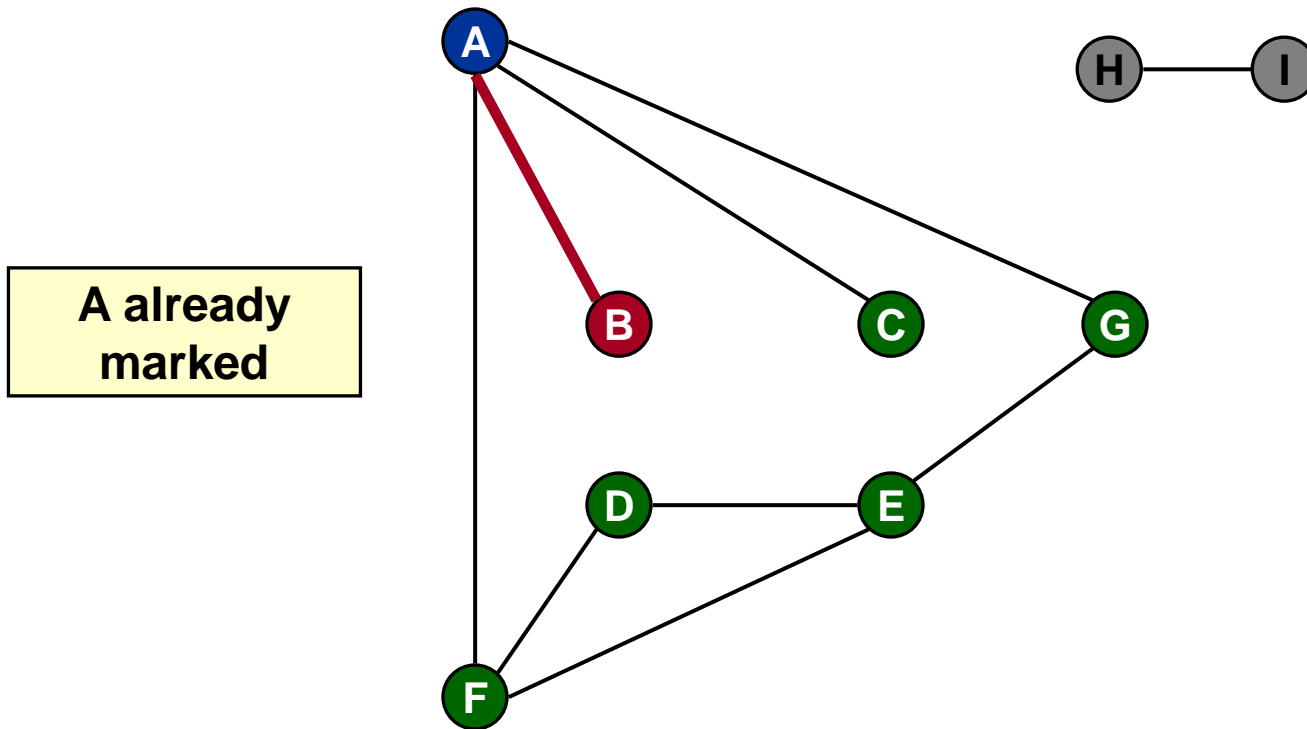
Undirected Depth First Search



Stack



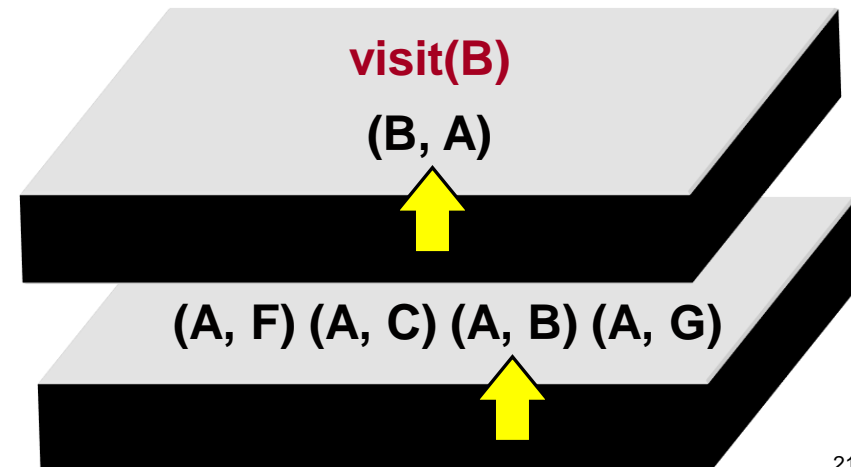
Undirected Depth First Search



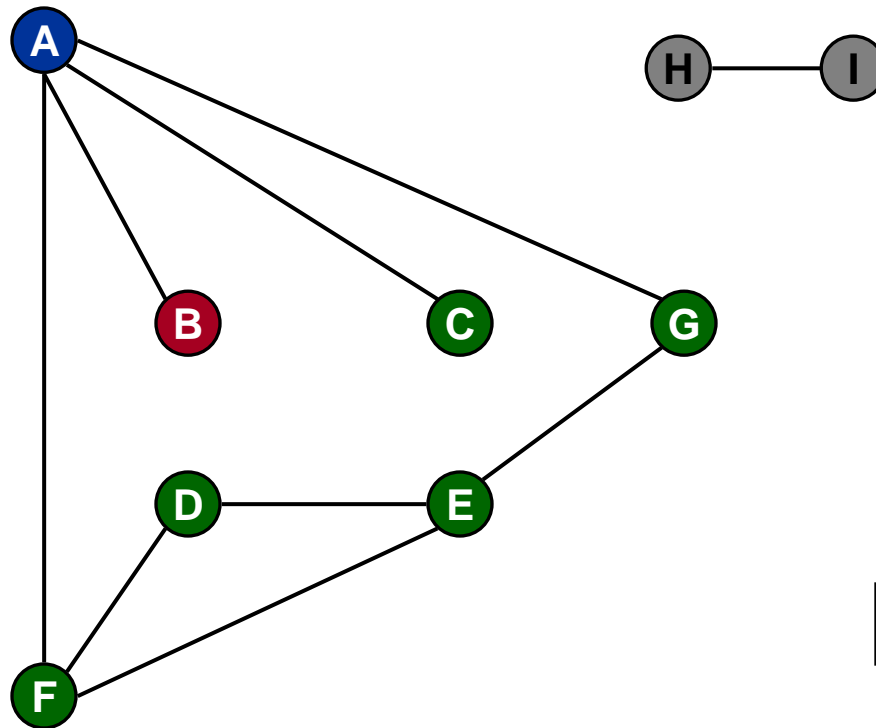
A already
marked

Undiscovered
Marked
Active
Finished

Stack



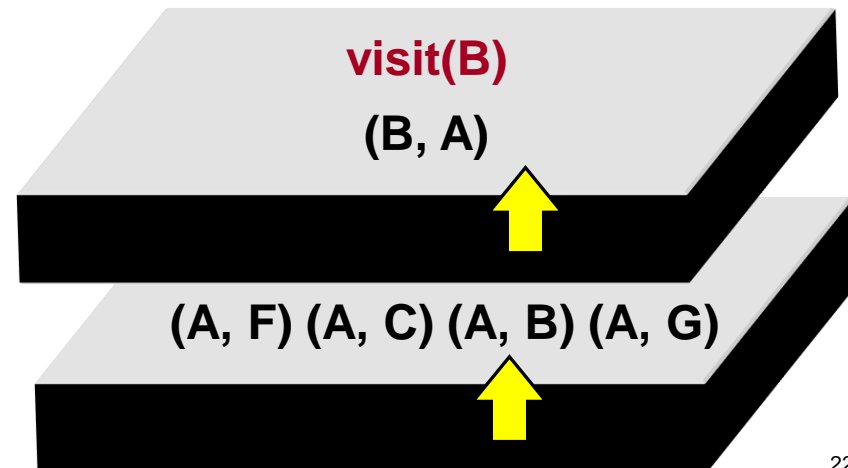
Undirected Depth First Search



Undiscovered
Marked
Active
Finished

Finished B

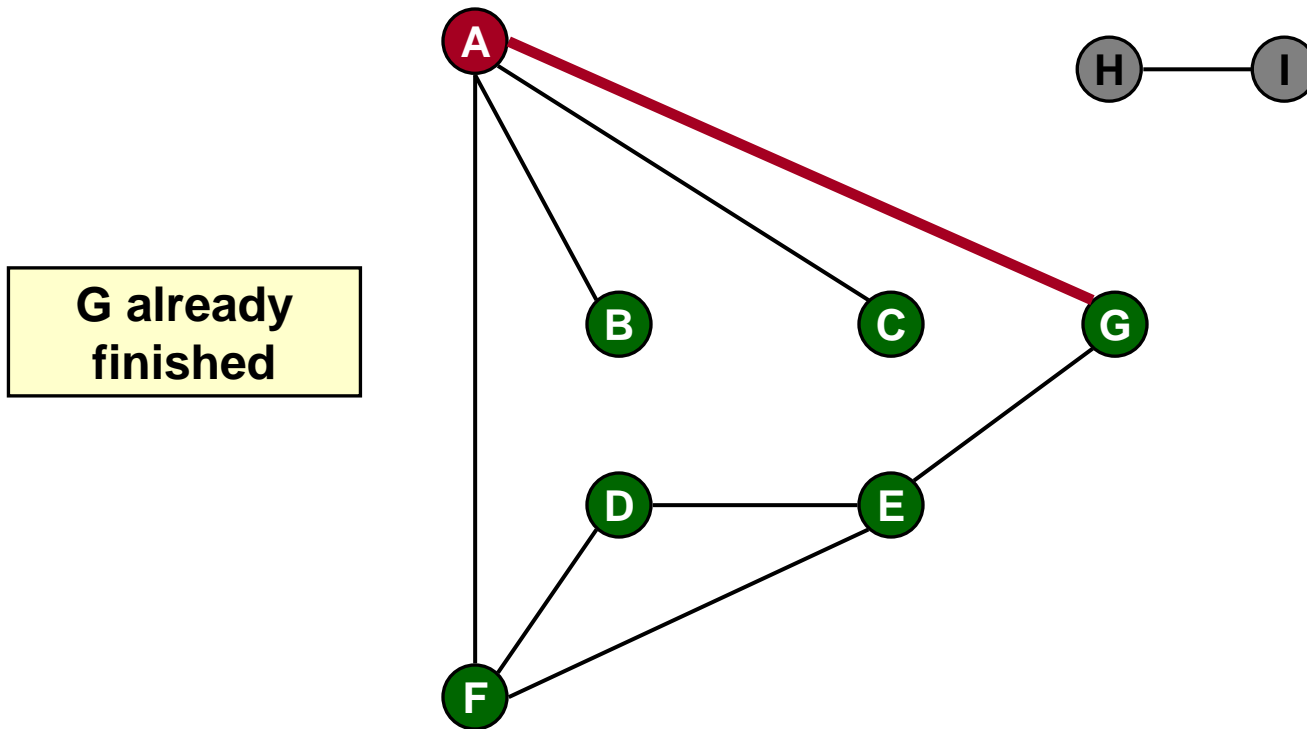
Stack



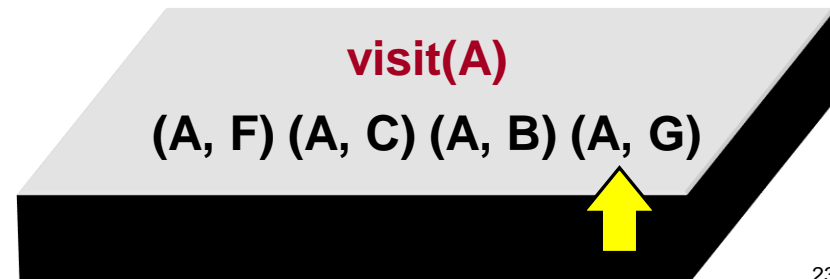
visit(B)
(B, A)

(A, F) (A, C) (A, B) (A, G)

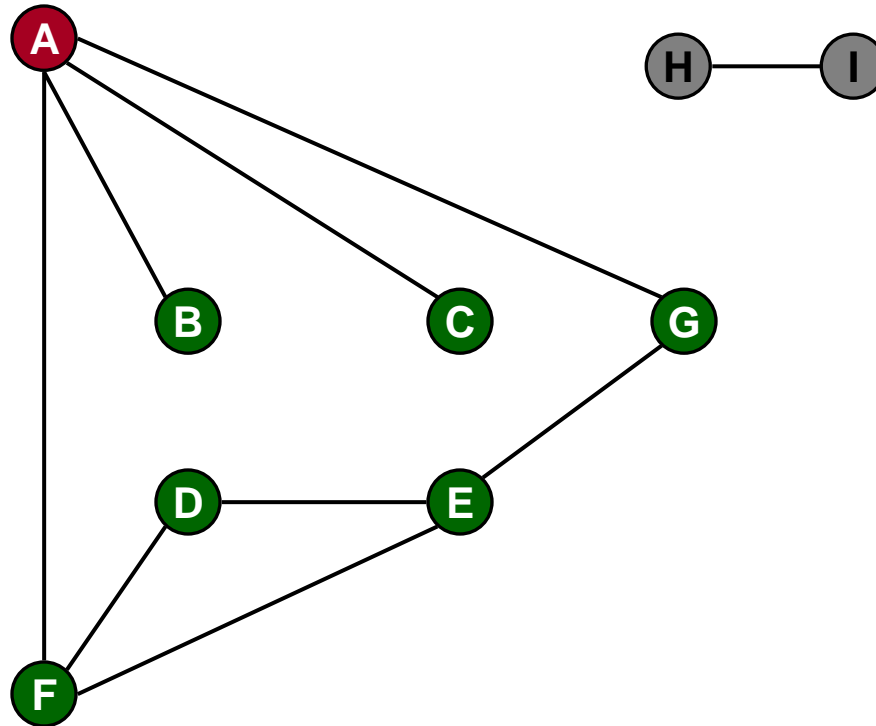
Undirected Depth First Search



Stack

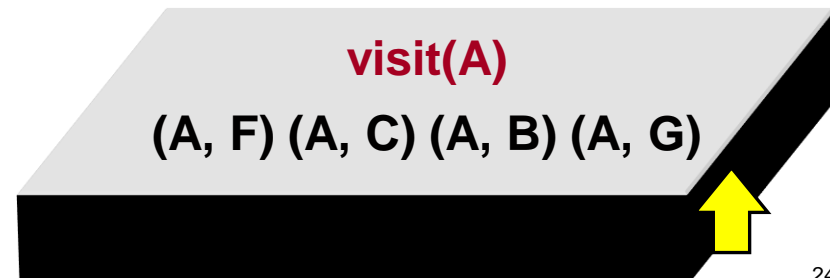


Undirected Depth First Search

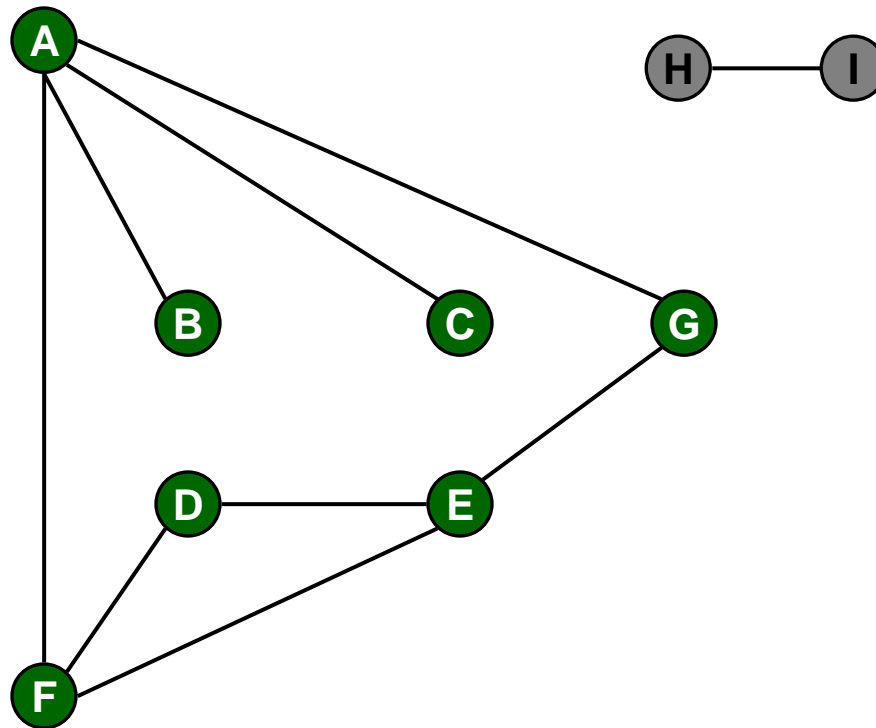


Stack

Finished A

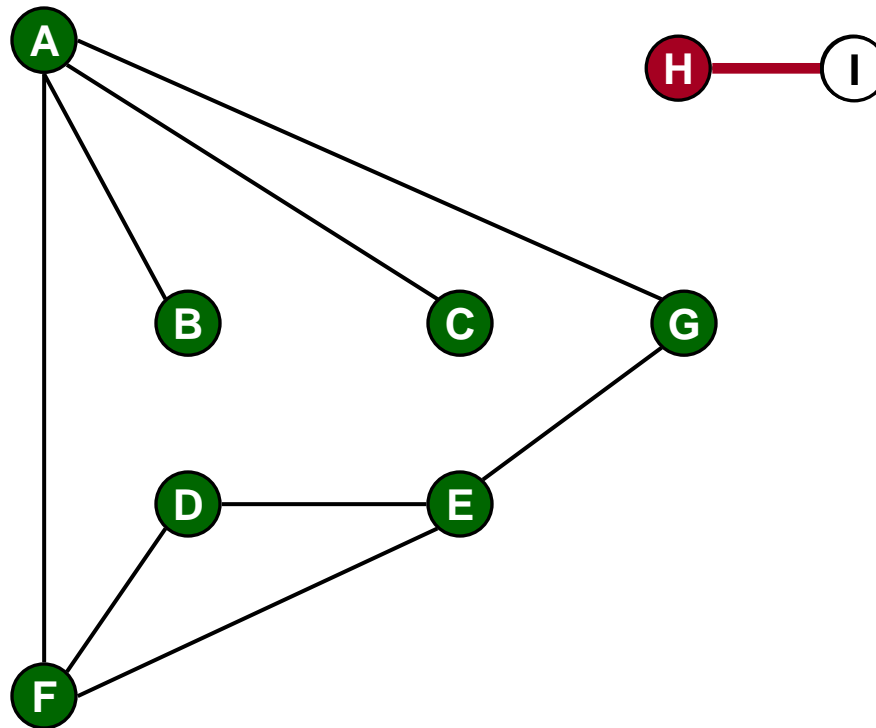


Undirected Depth First Search



Stack

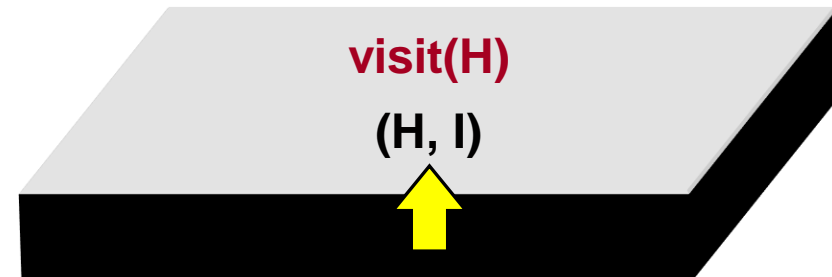
Undirected Depth First Search



I newly
discovered

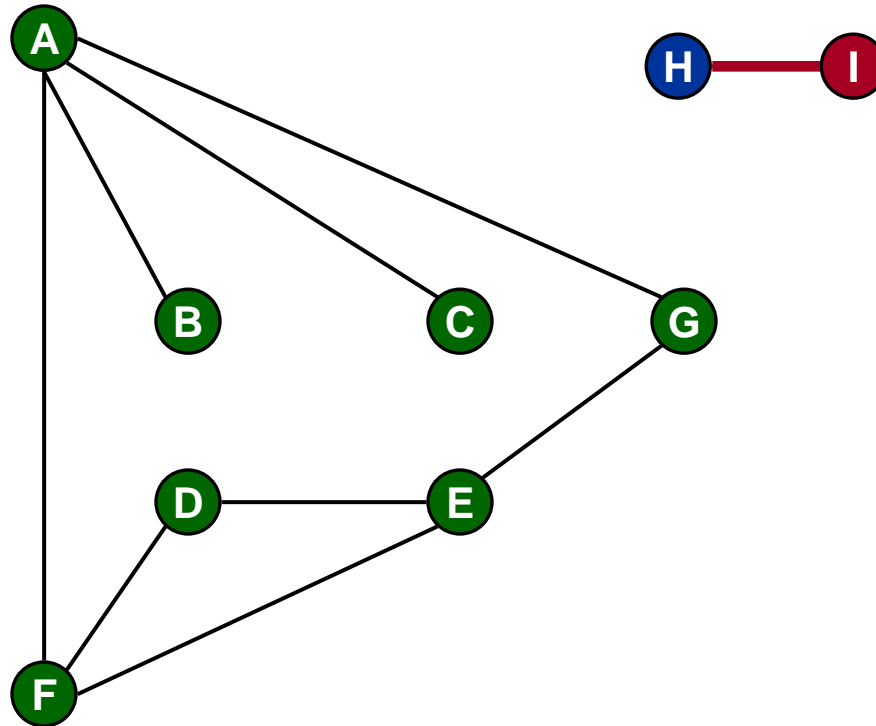


Stack

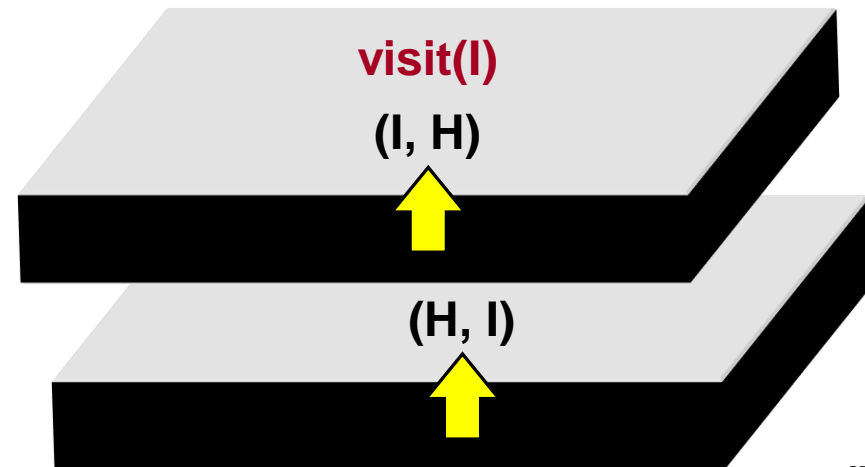


Undirected Depth First Search

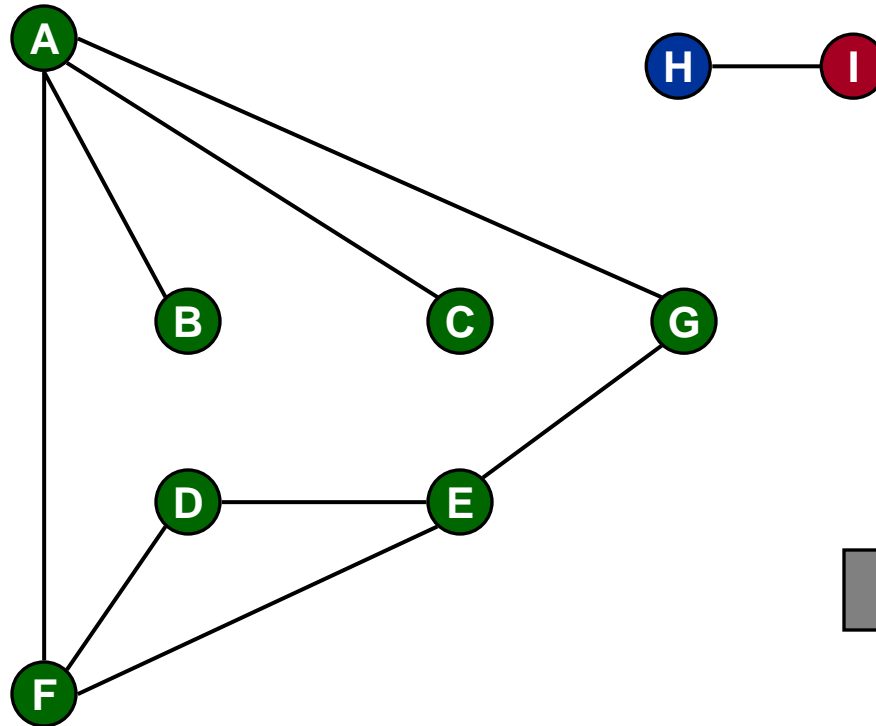
H already marked



Stack



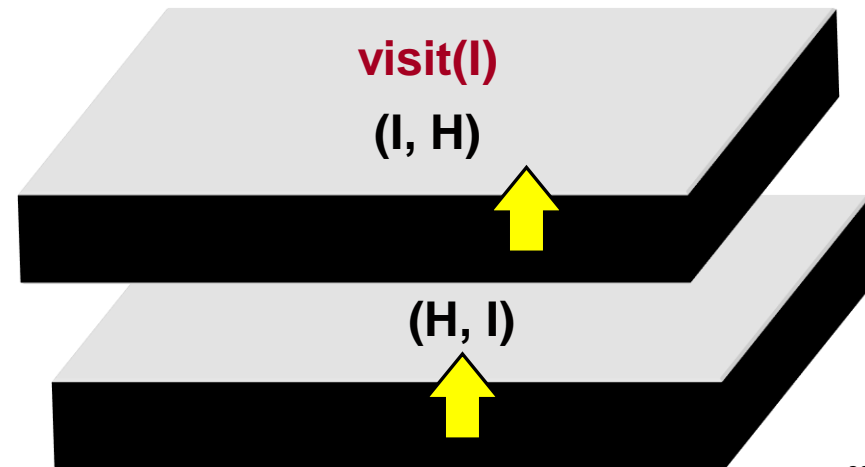
Undirected Depth First Search



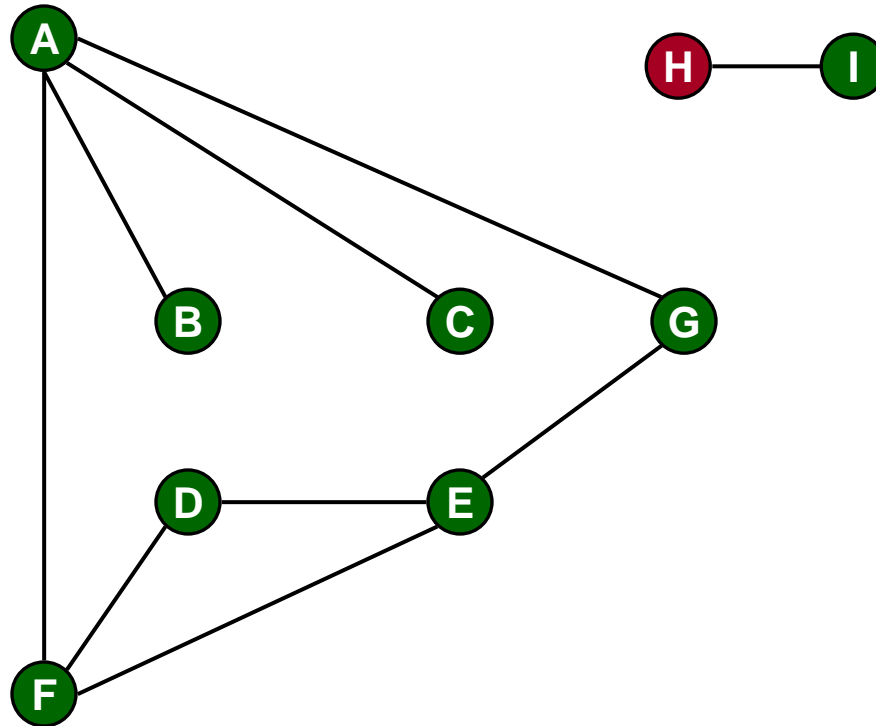
Finished I

Undiscovered
Marked
Active
Finished

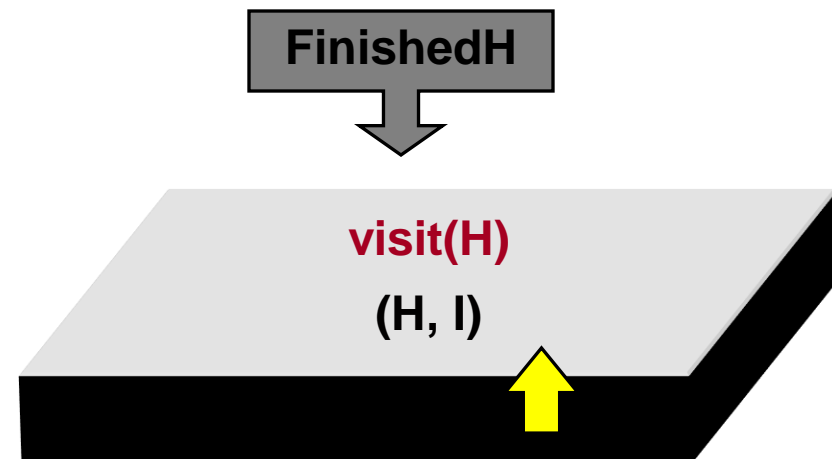
Stack



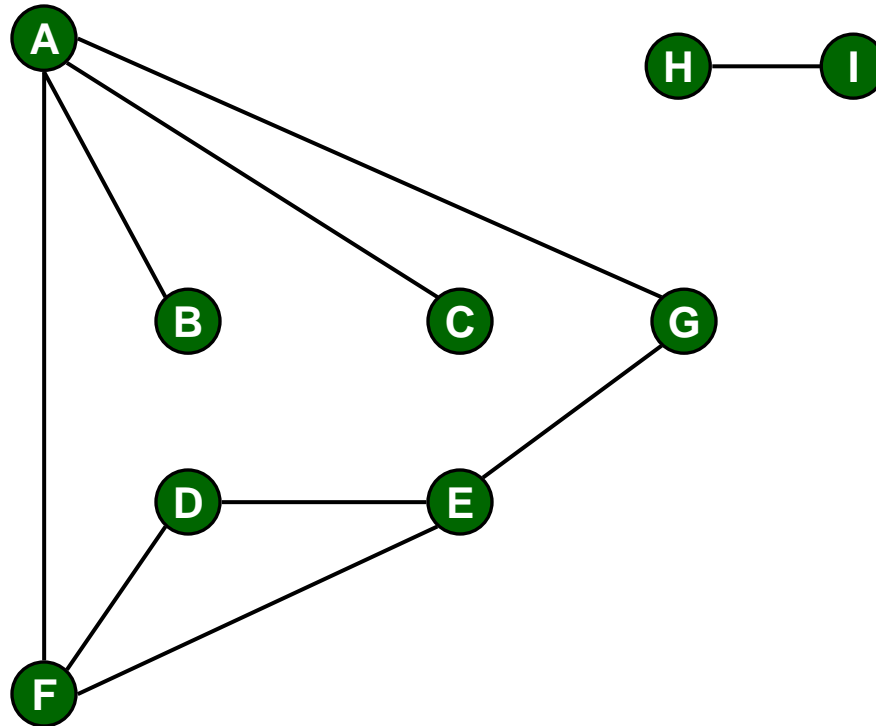
Undirected Depth First Search



Stack



Undirected Depth First Search



Stack