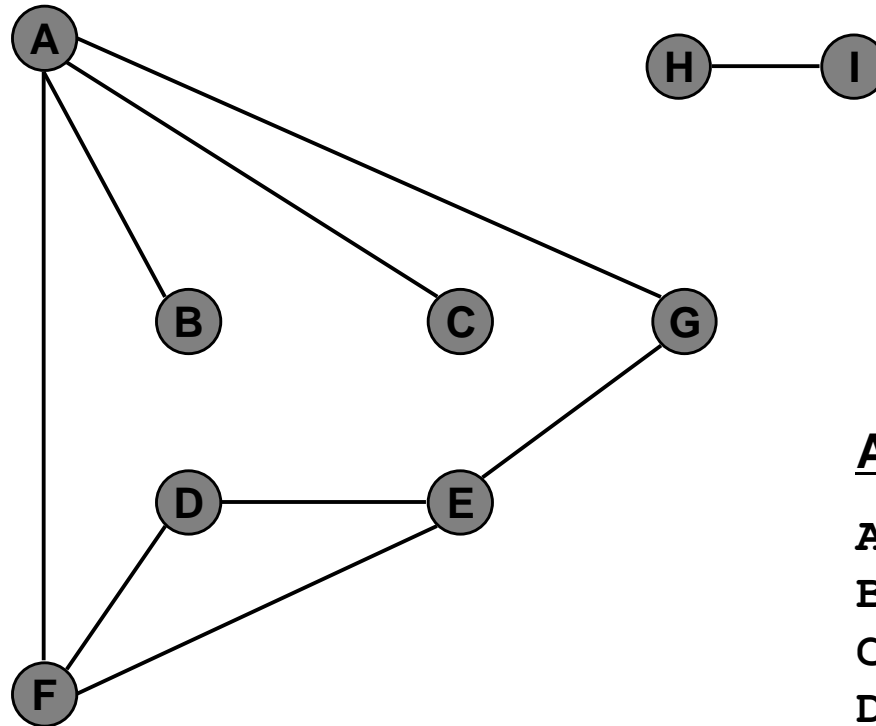


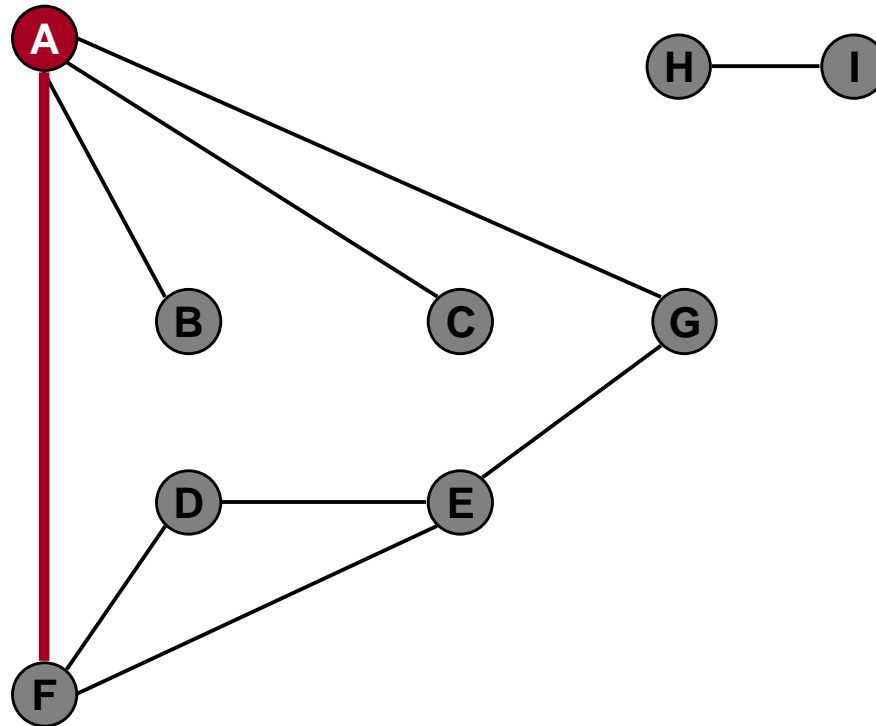
# Undirected Depth First Search



## 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

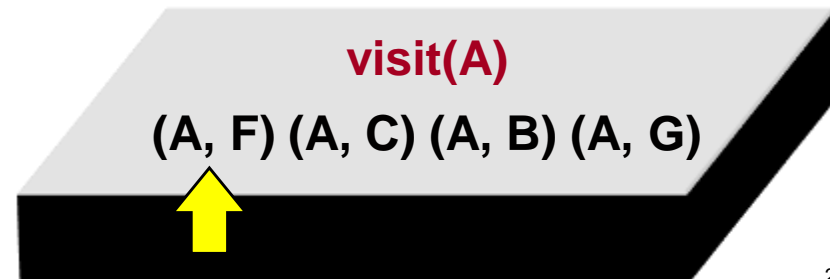
# Undirected Depth First Search



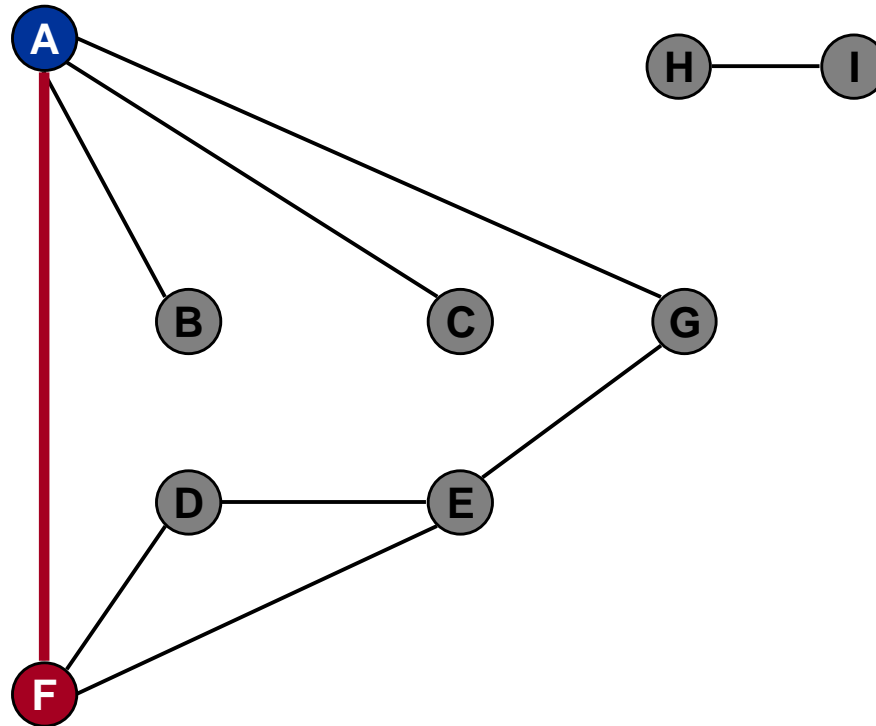
**F newly  
discovered**



**Stack**



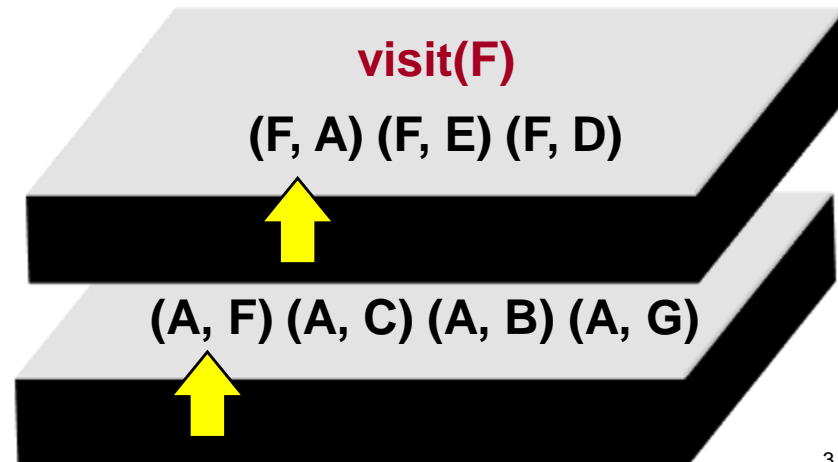
# Undirected Depth First Search



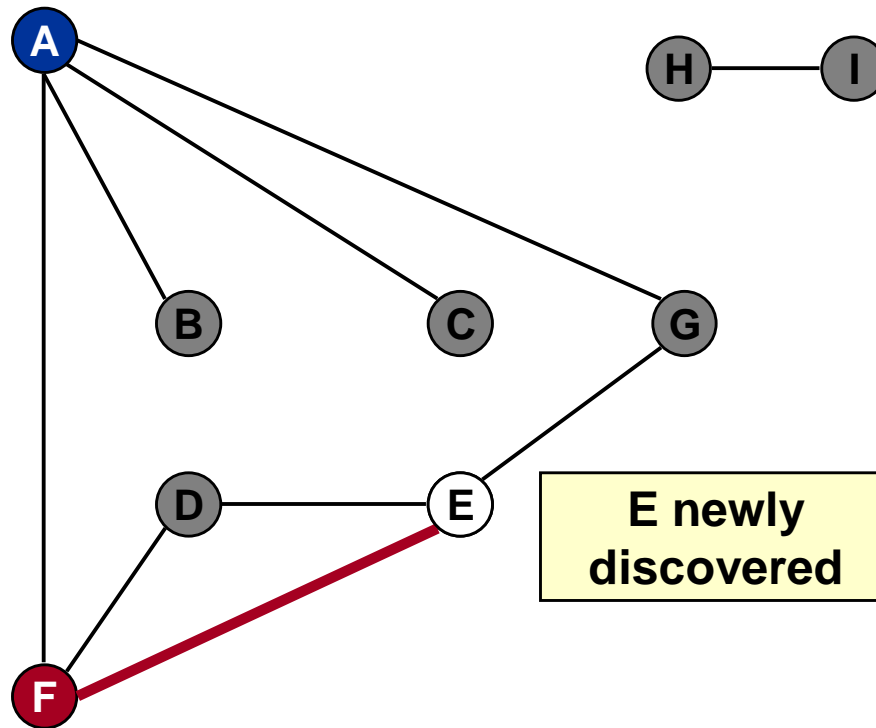
A already  
marked



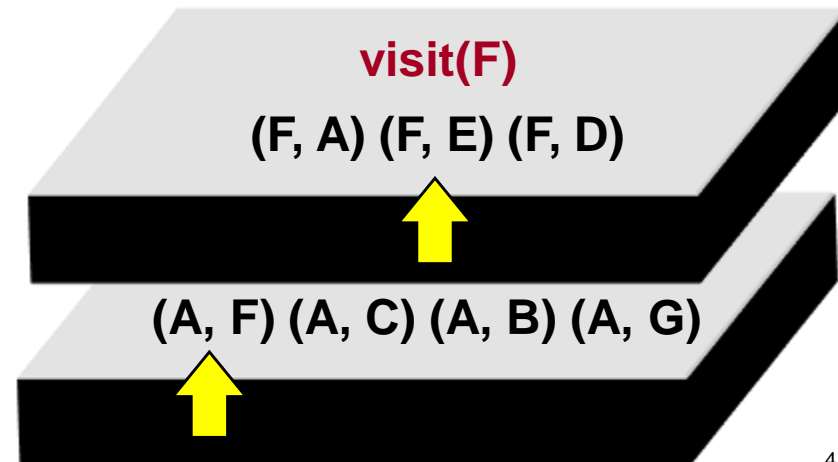
Stack



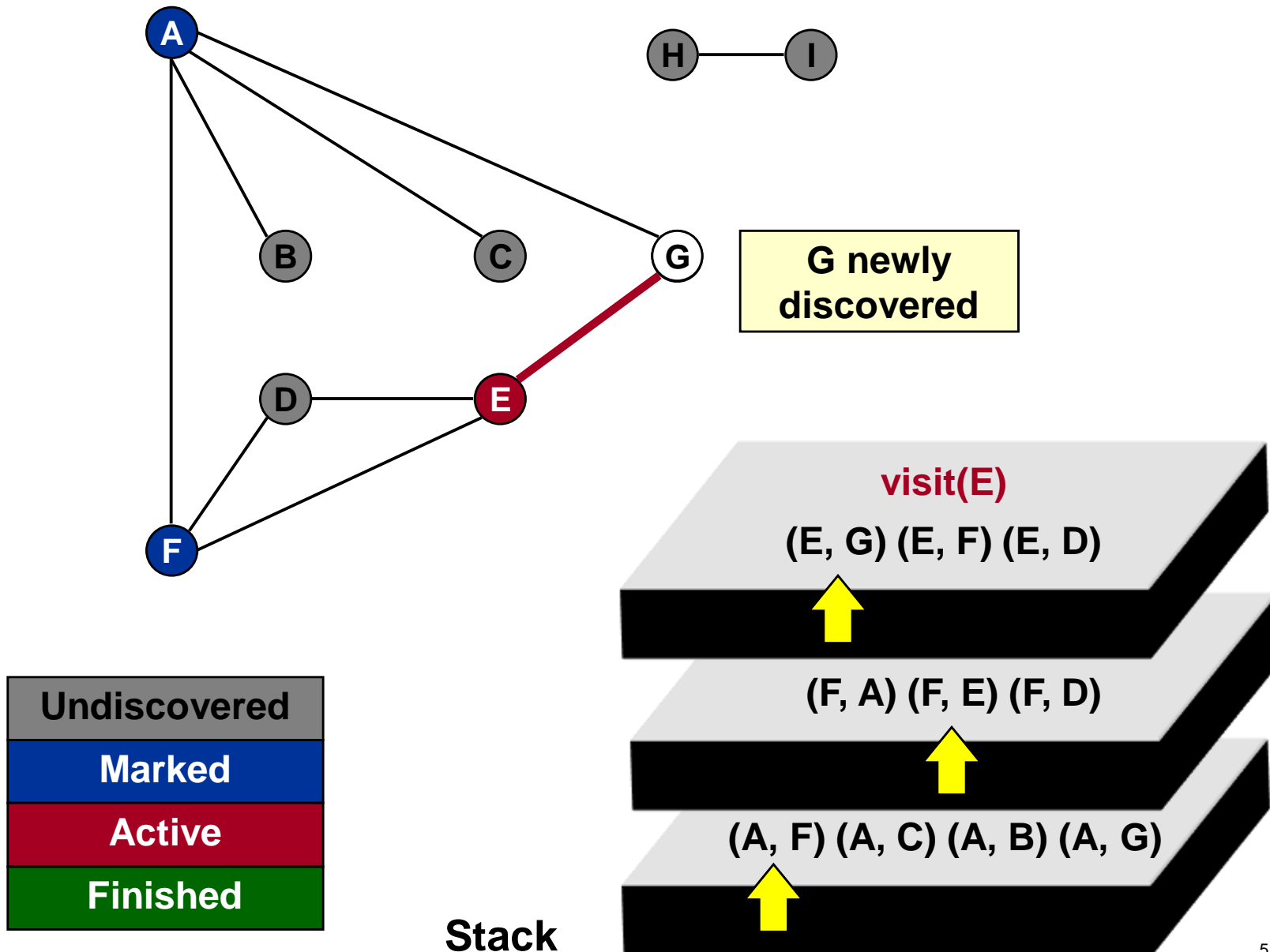
# Undirected Depth First Search



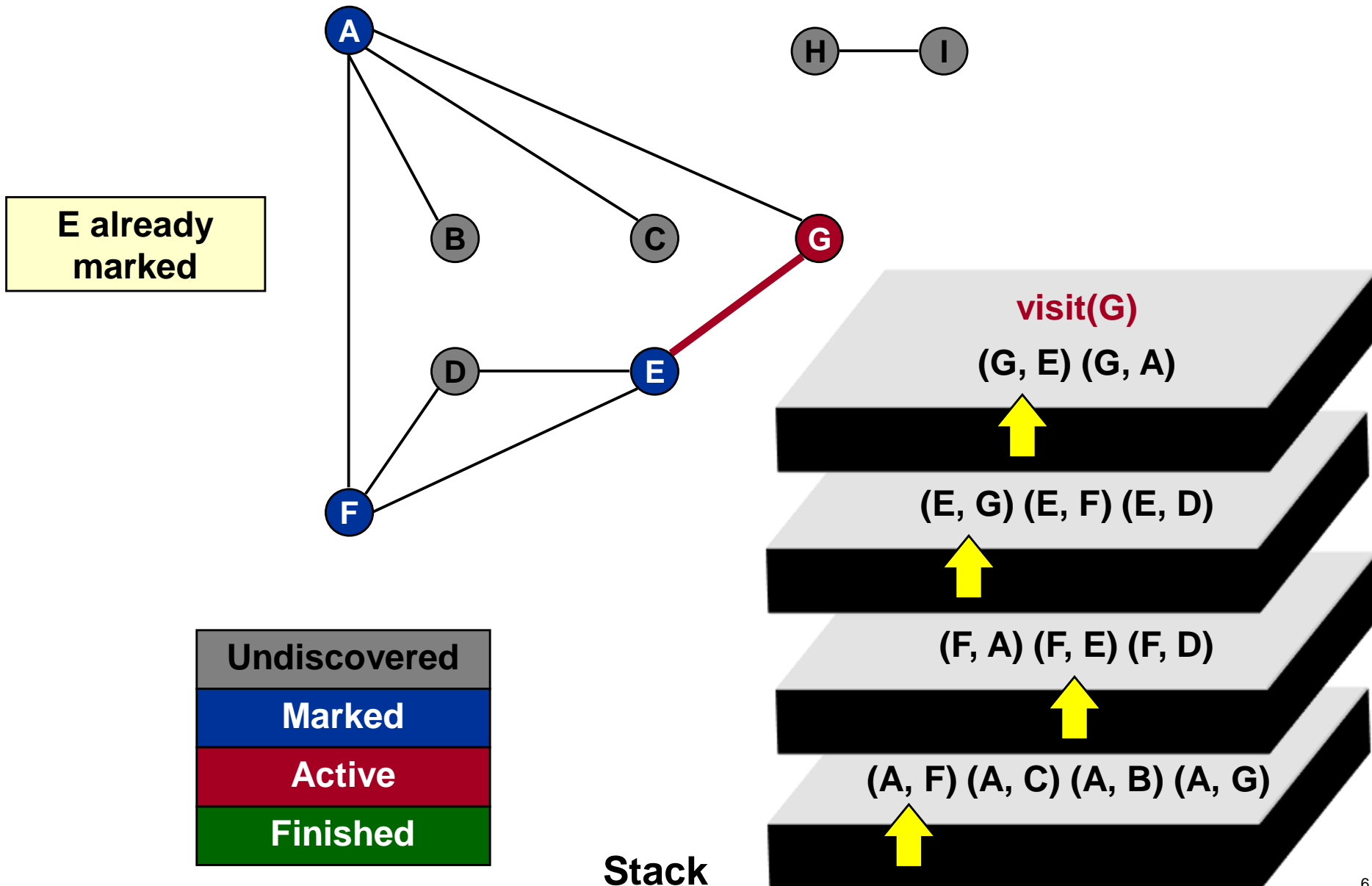
Stack



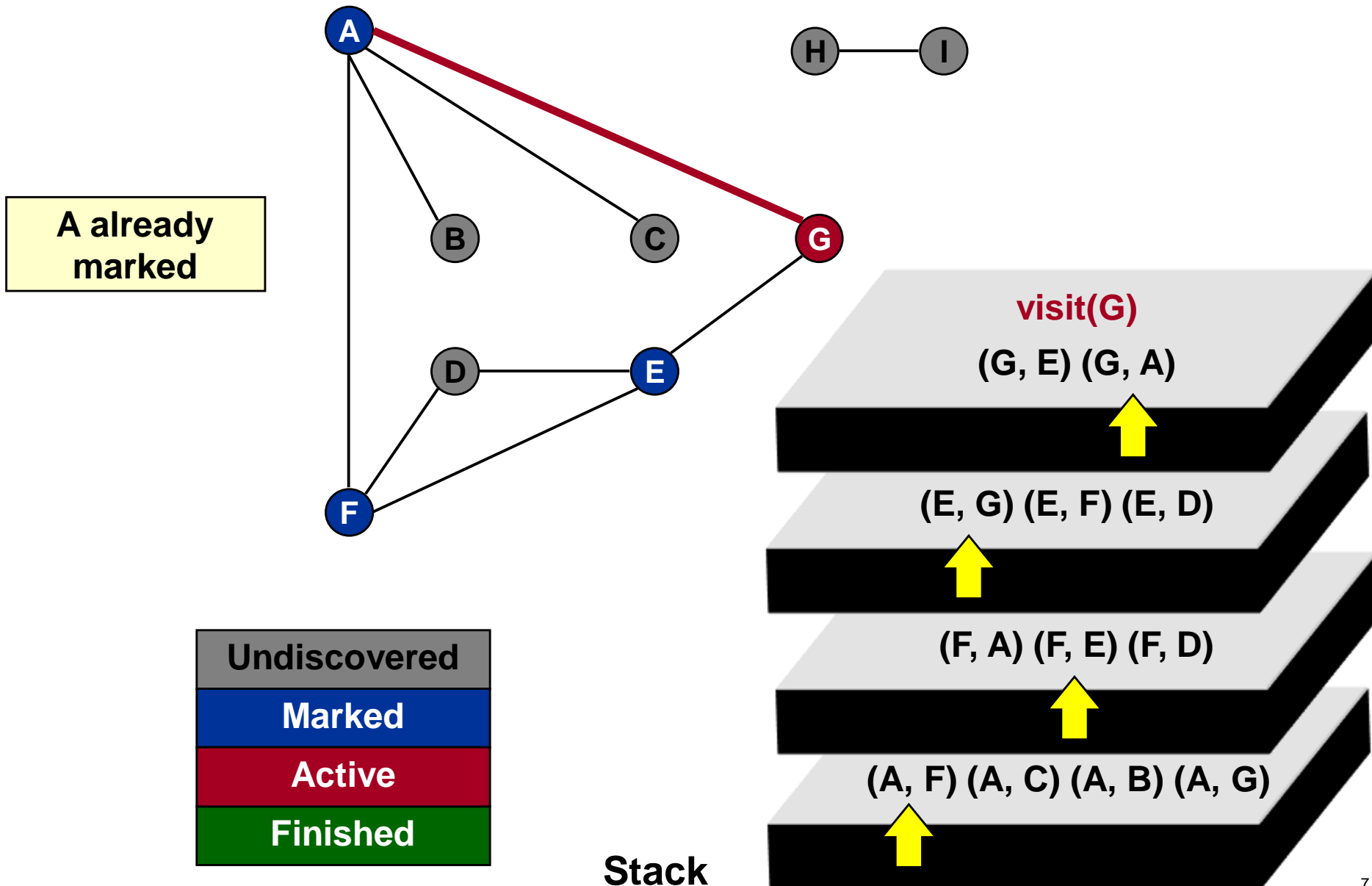
# Undirected Depth First Search



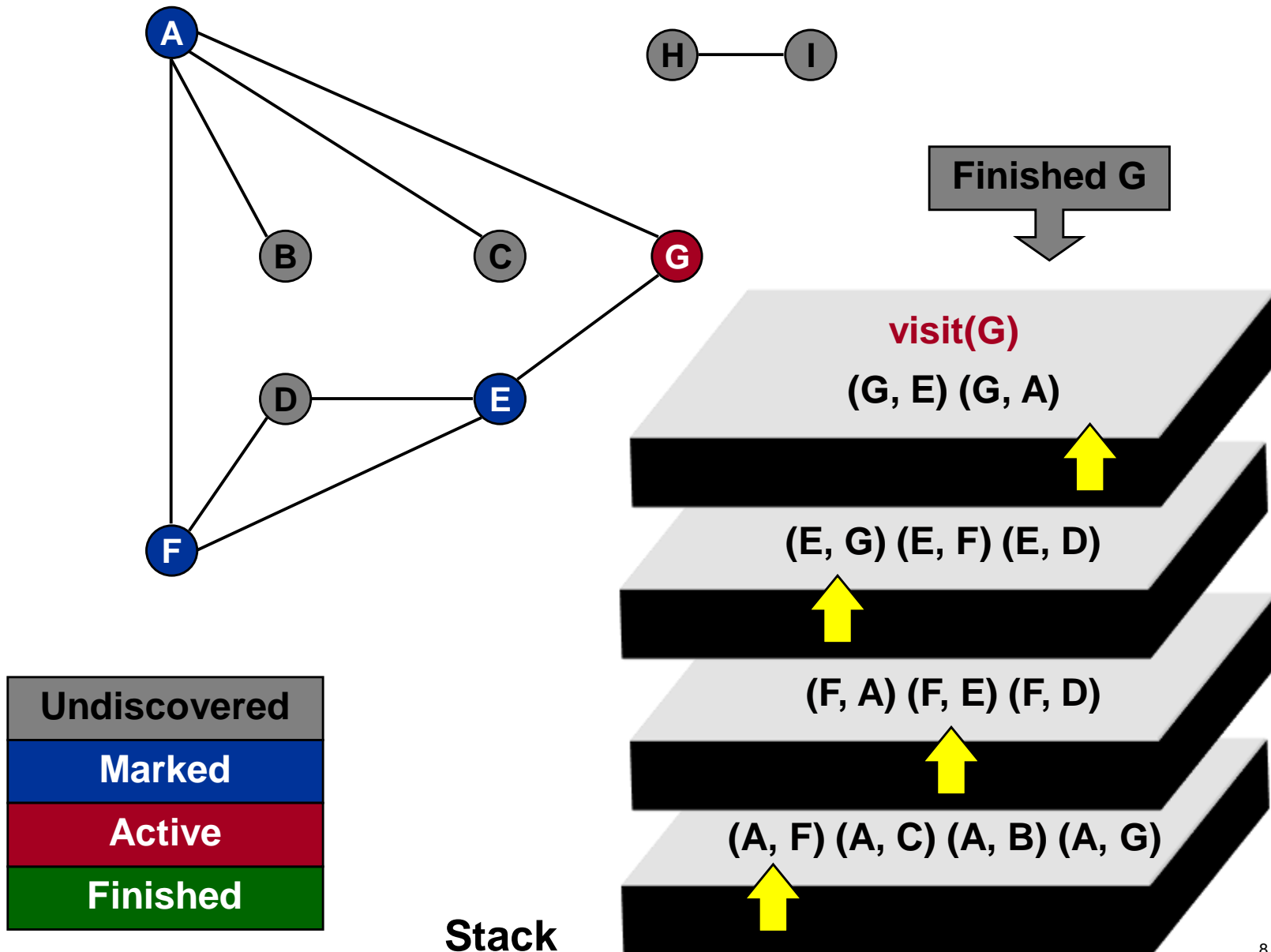
# Undirected Depth First Search



# Undirected Depth First Search

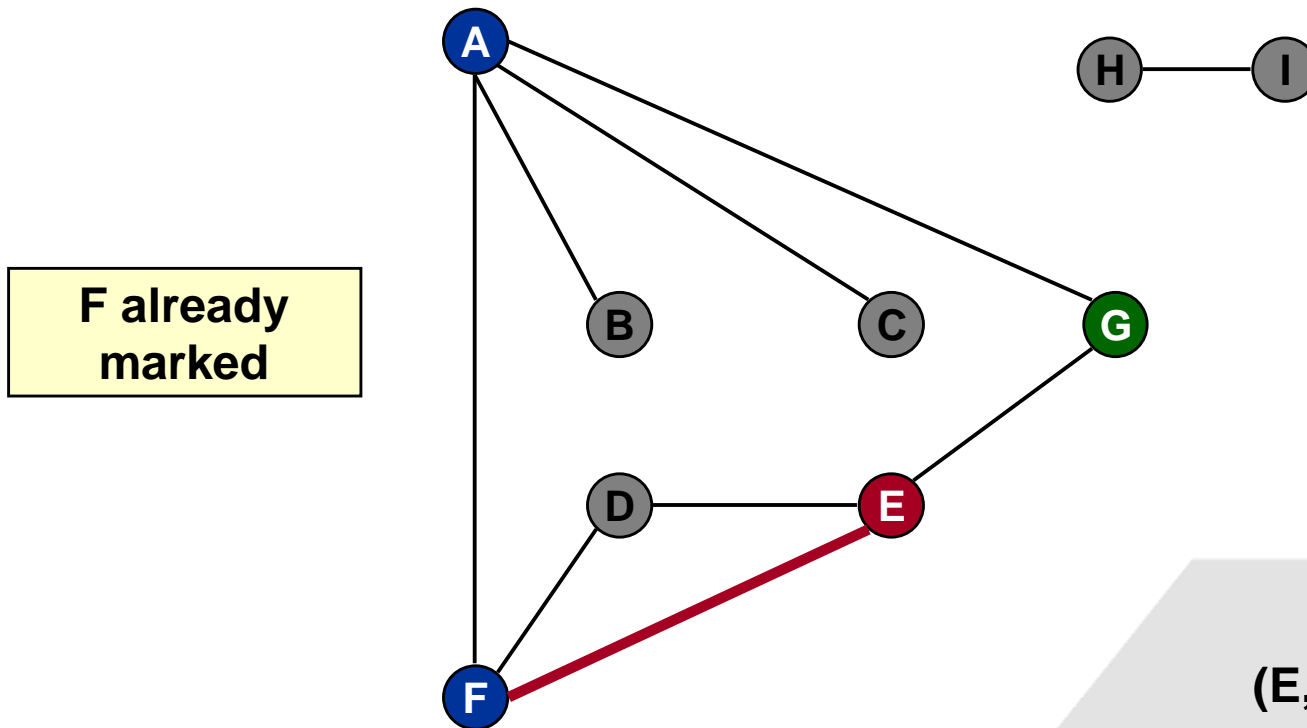


# Undirected Depth First Search



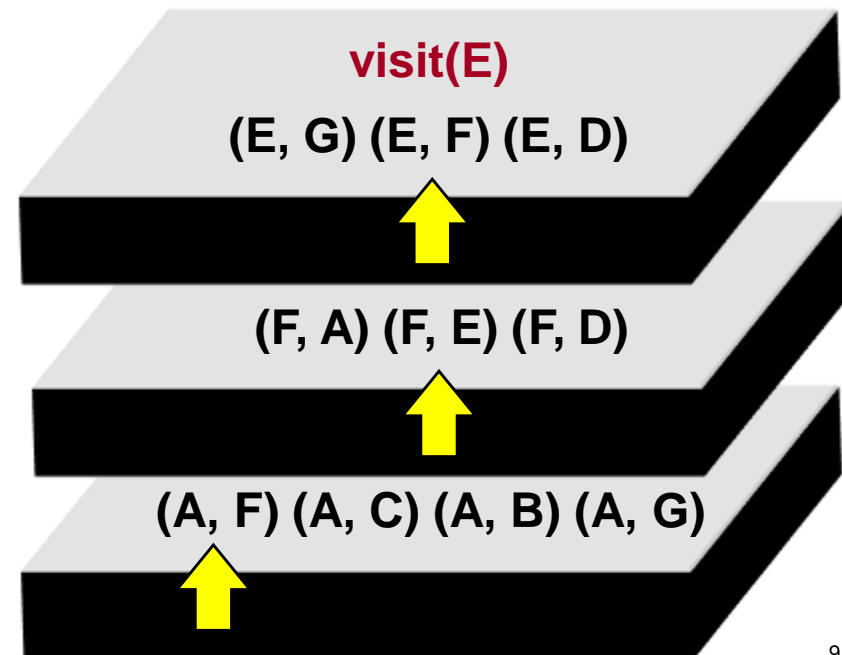


# Undirected Depth First Search

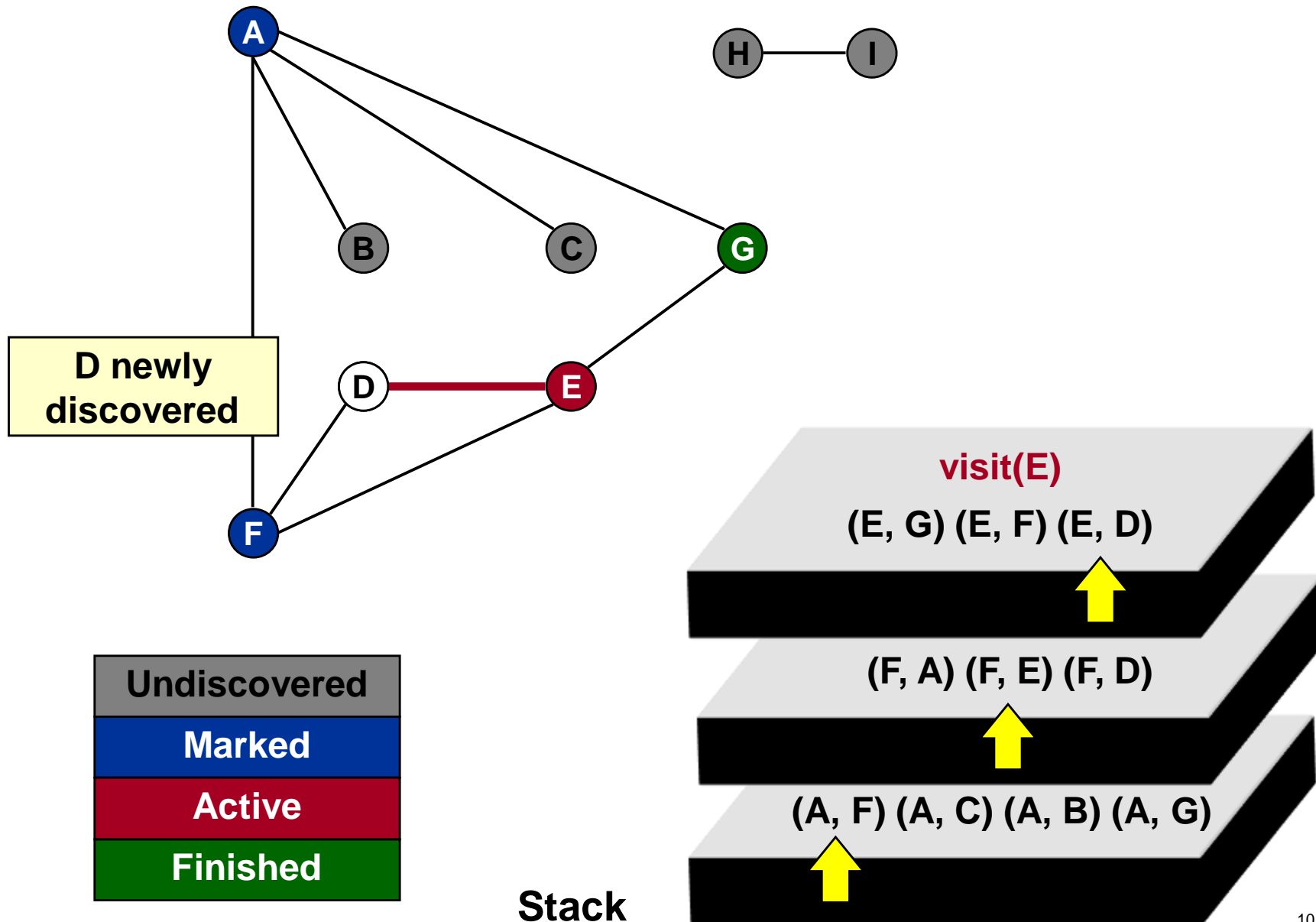


Undiscovered
Marked
Active
Finished

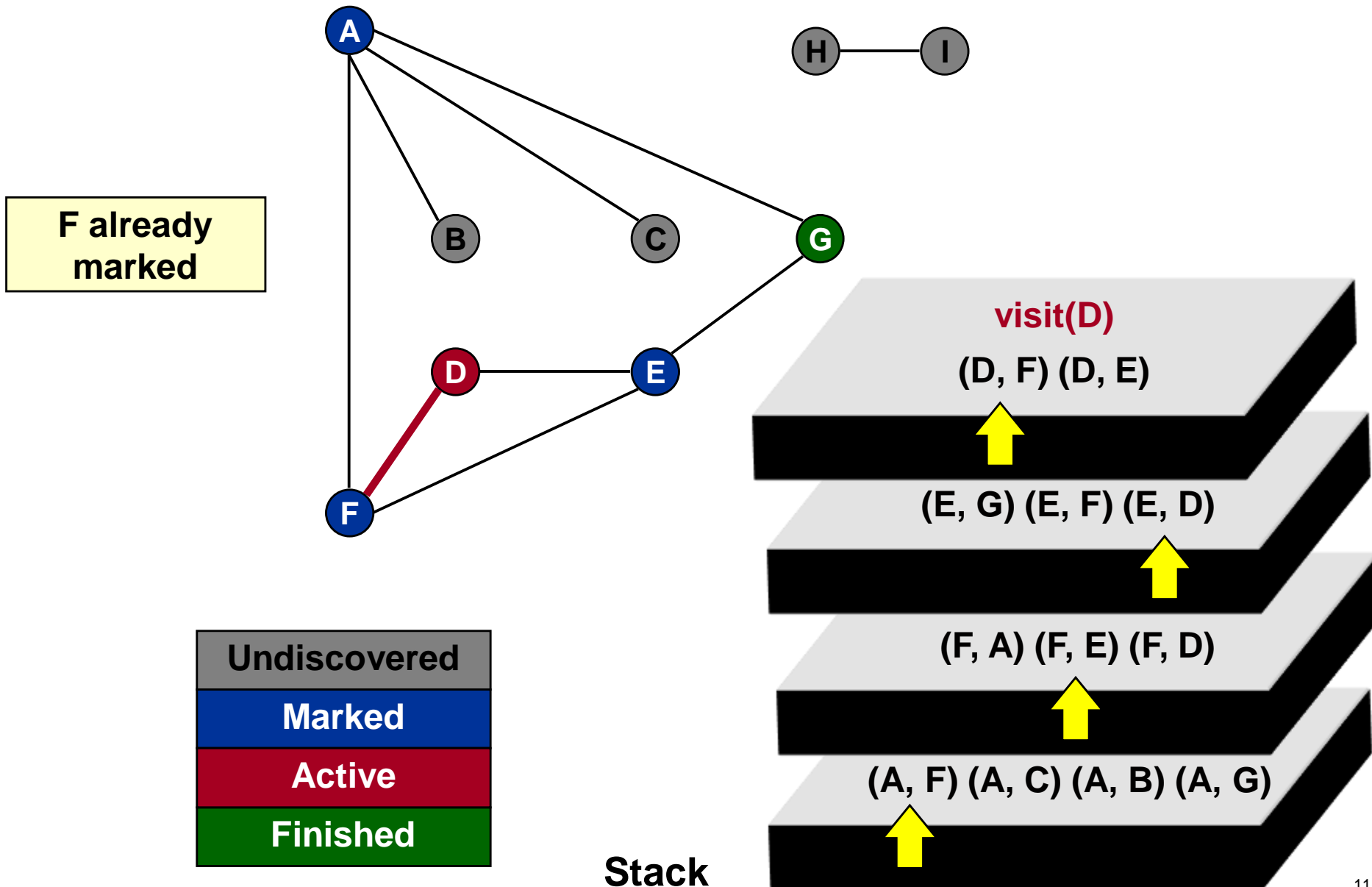
Stack



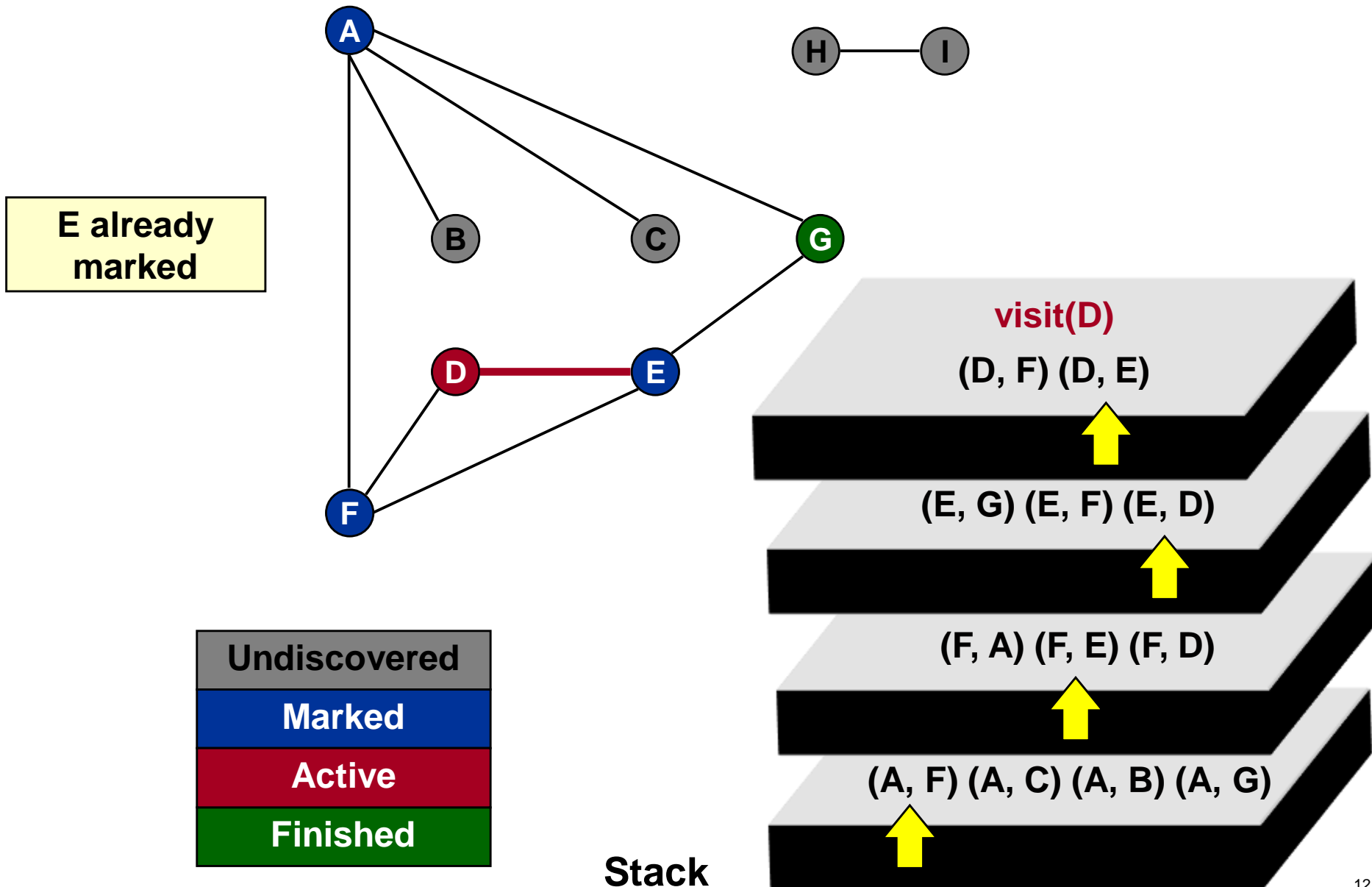
# Undirected Depth First Search



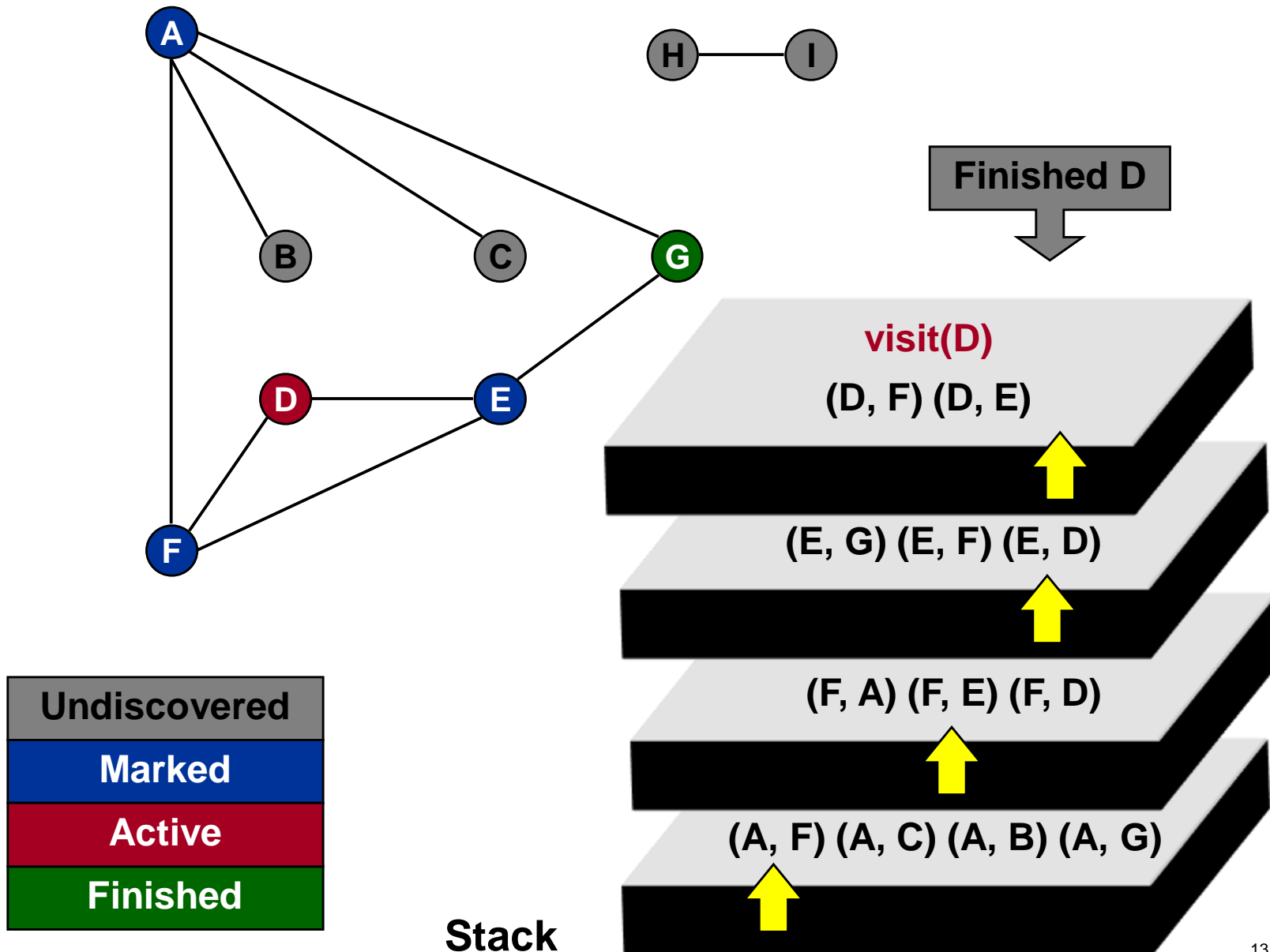
# Undirected Depth First Search



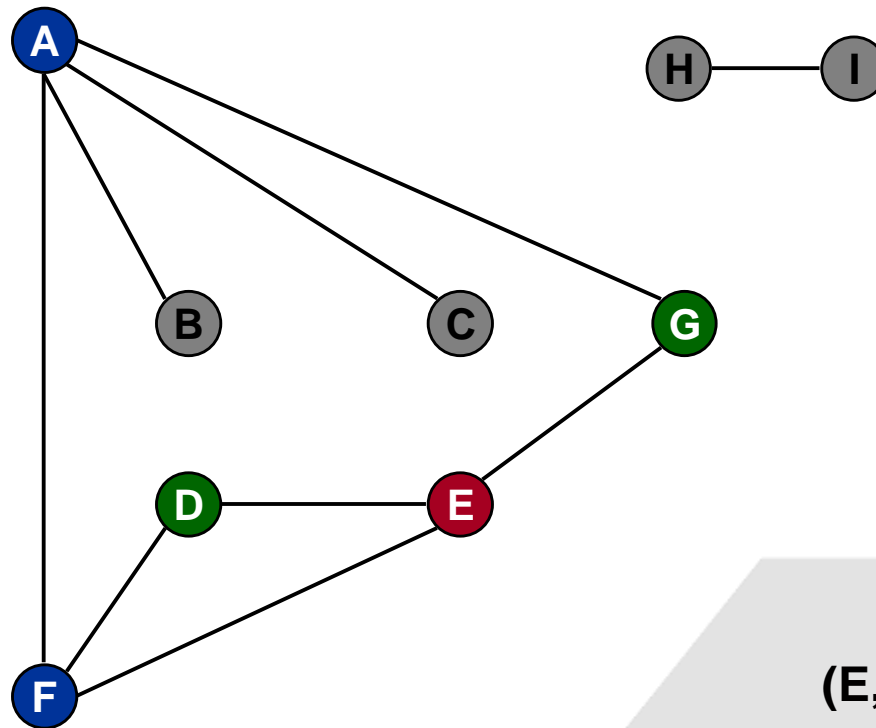
# Undirected Depth First Search



# Undirected Depth First Search

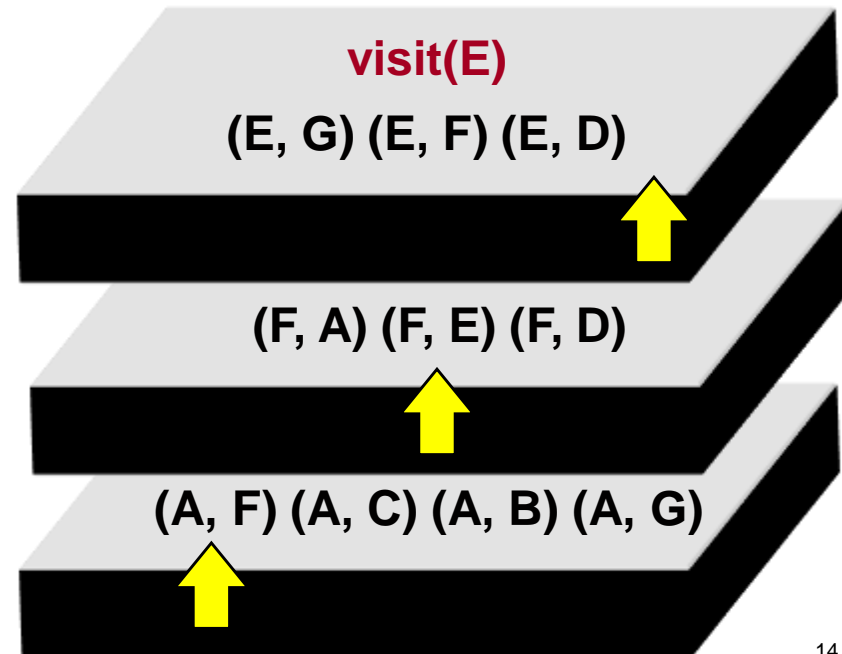


# Undirected Depth First Search

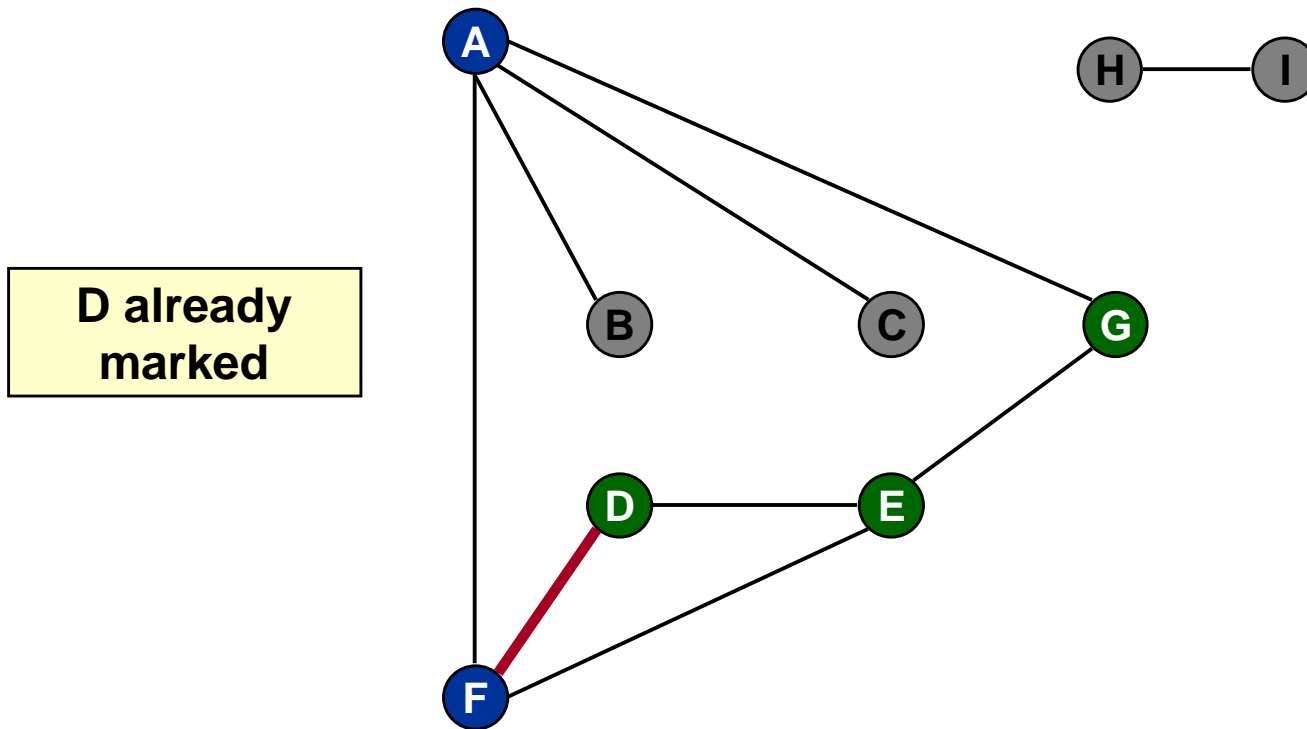


Finished E

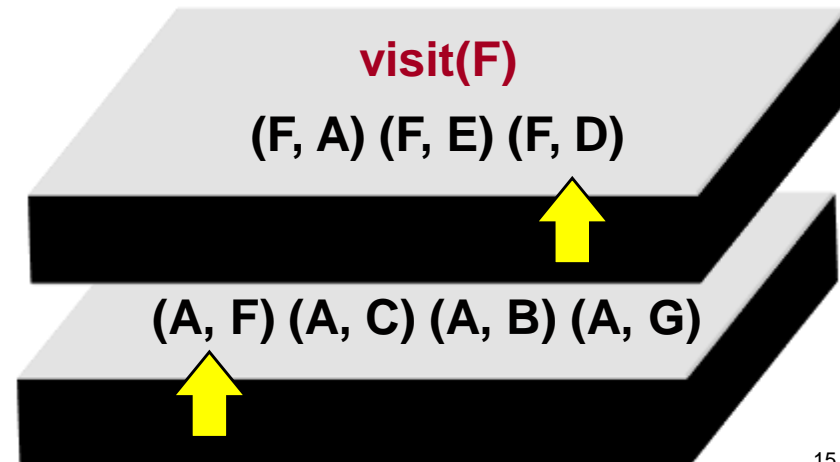
Stack



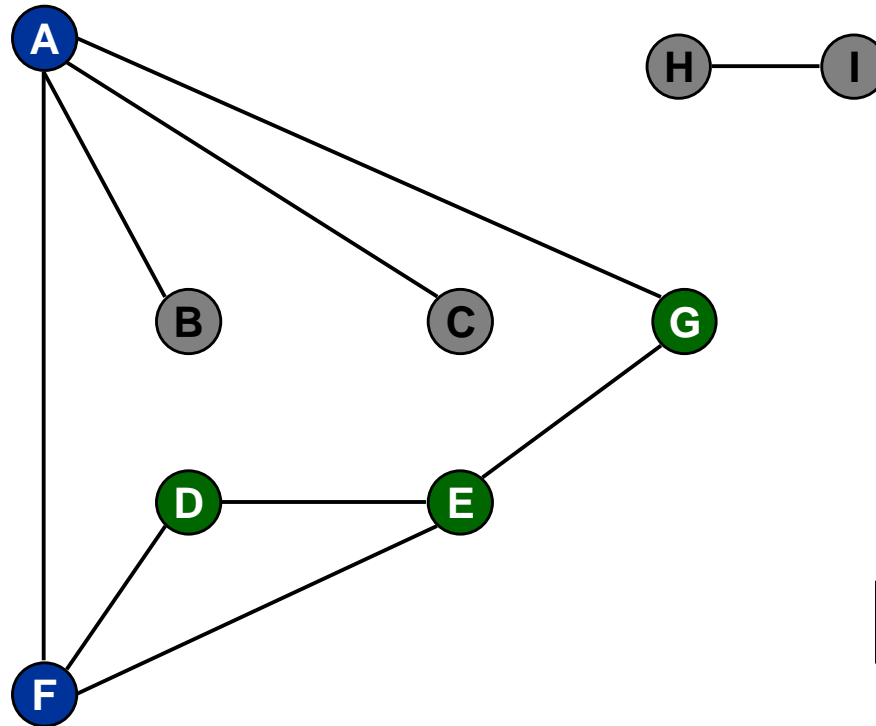
# Undirected Depth First Search



Stack

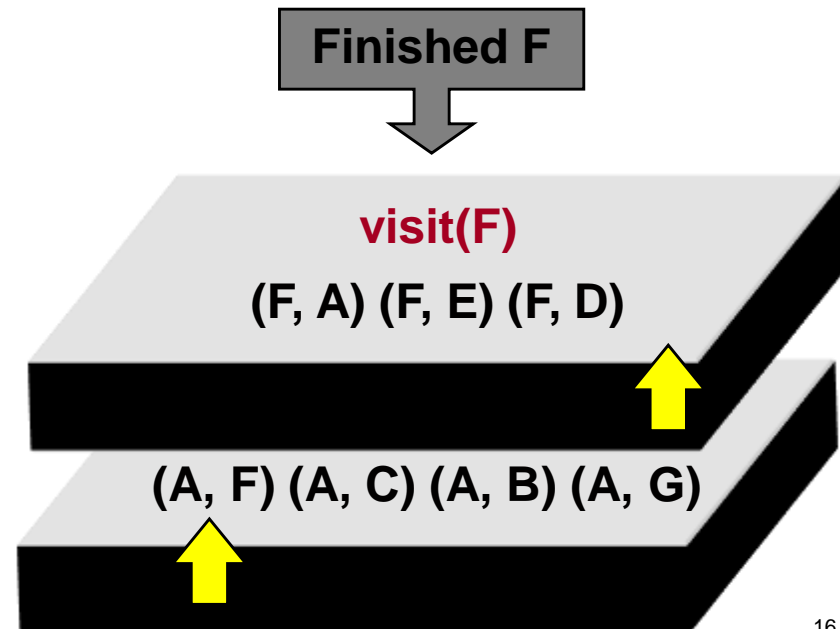


# Undirected Depth First Search



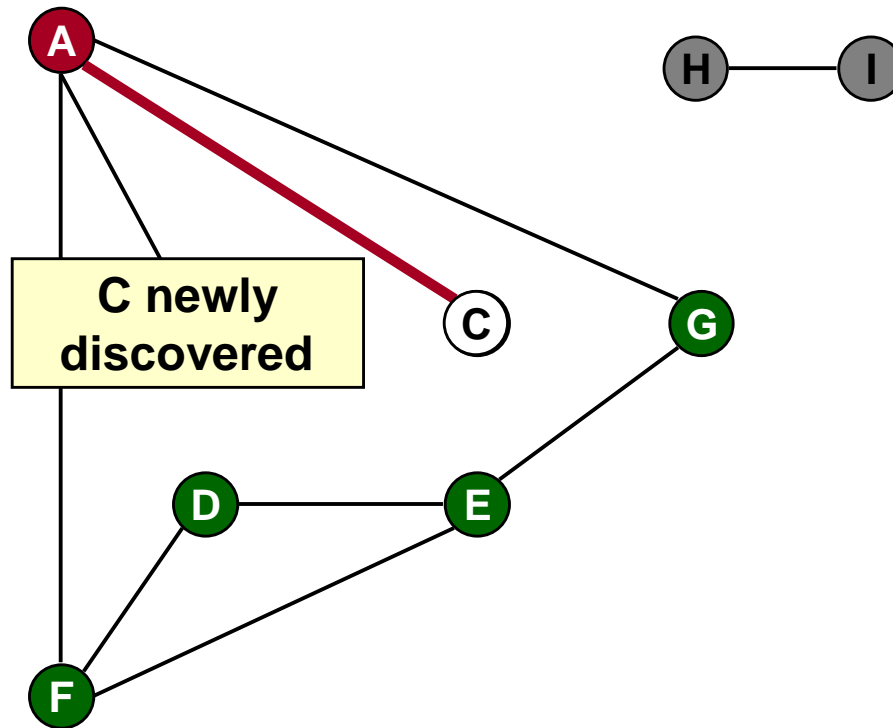
Undiscovered
Marked
Active
Finished

Stack

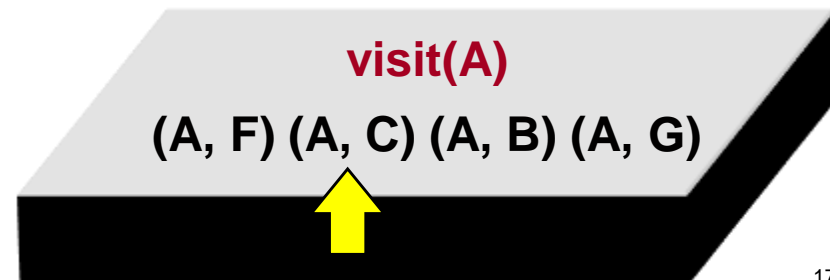




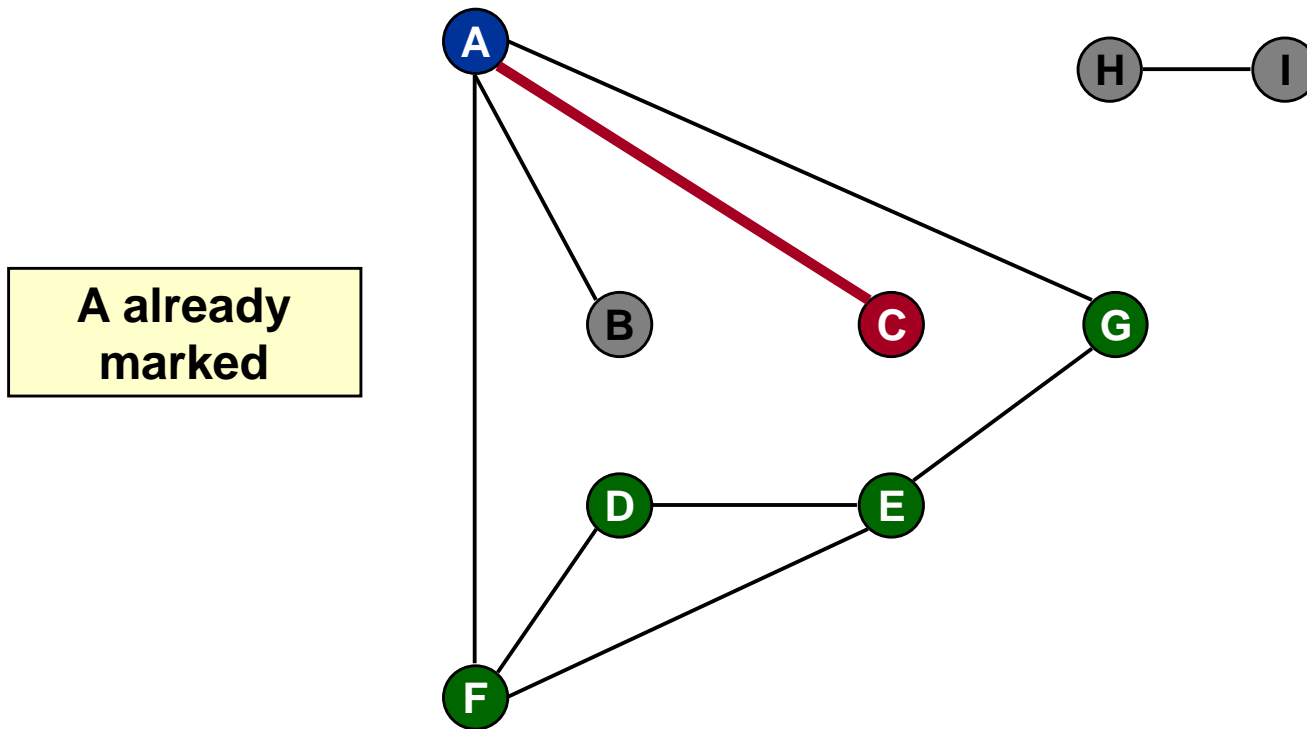
# Undirected Depth First Search



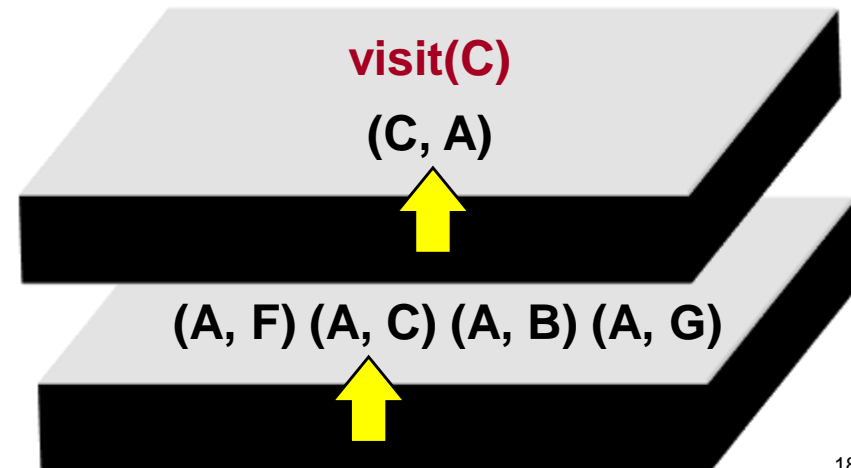
Stack



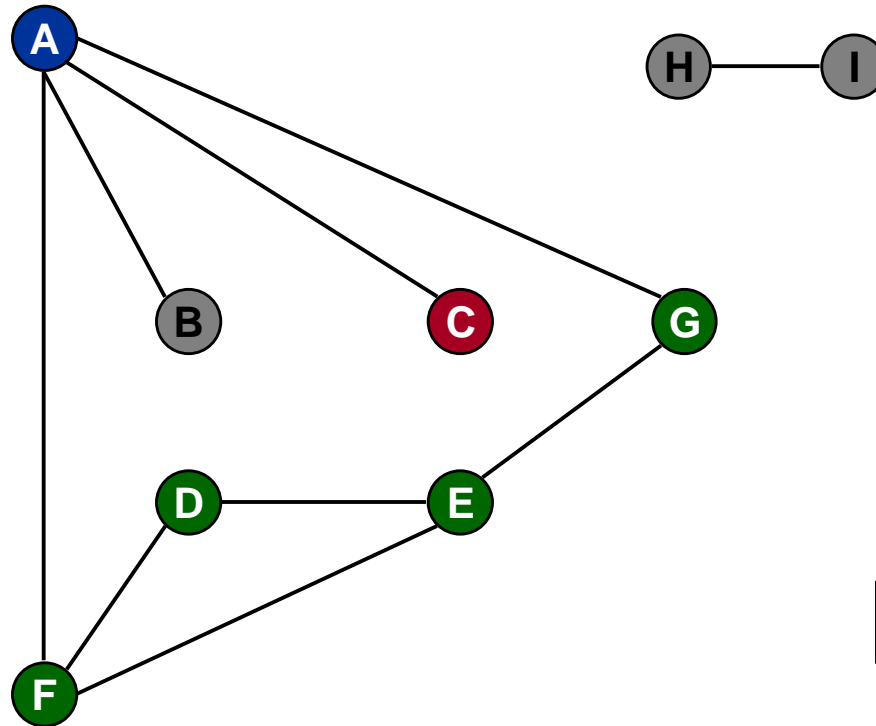
# Undirected Depth First Search



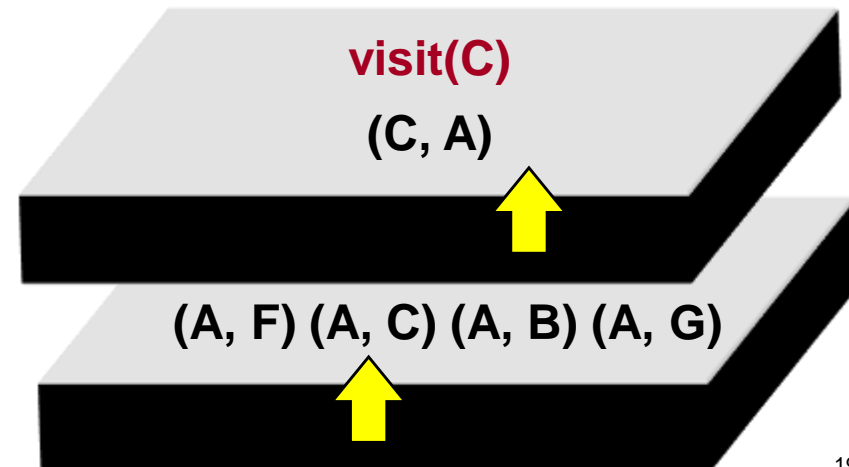
Stack



# Undirected Depth First Search

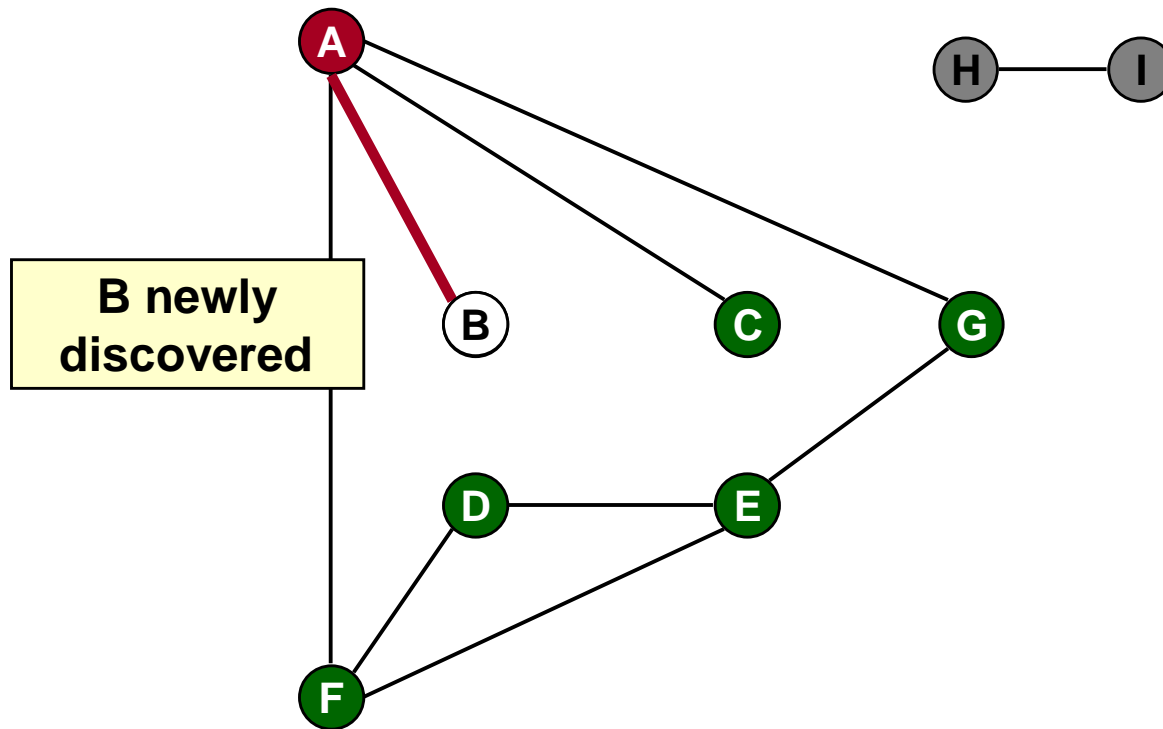


Finished C

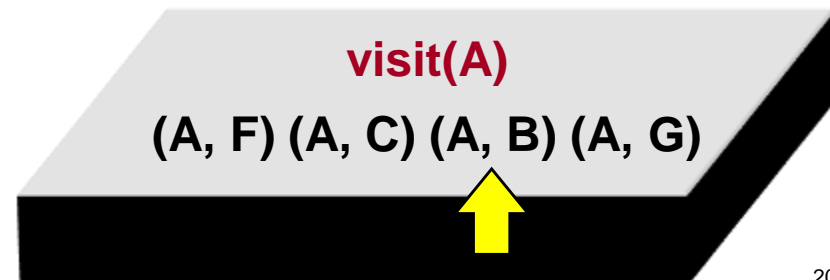


Stack

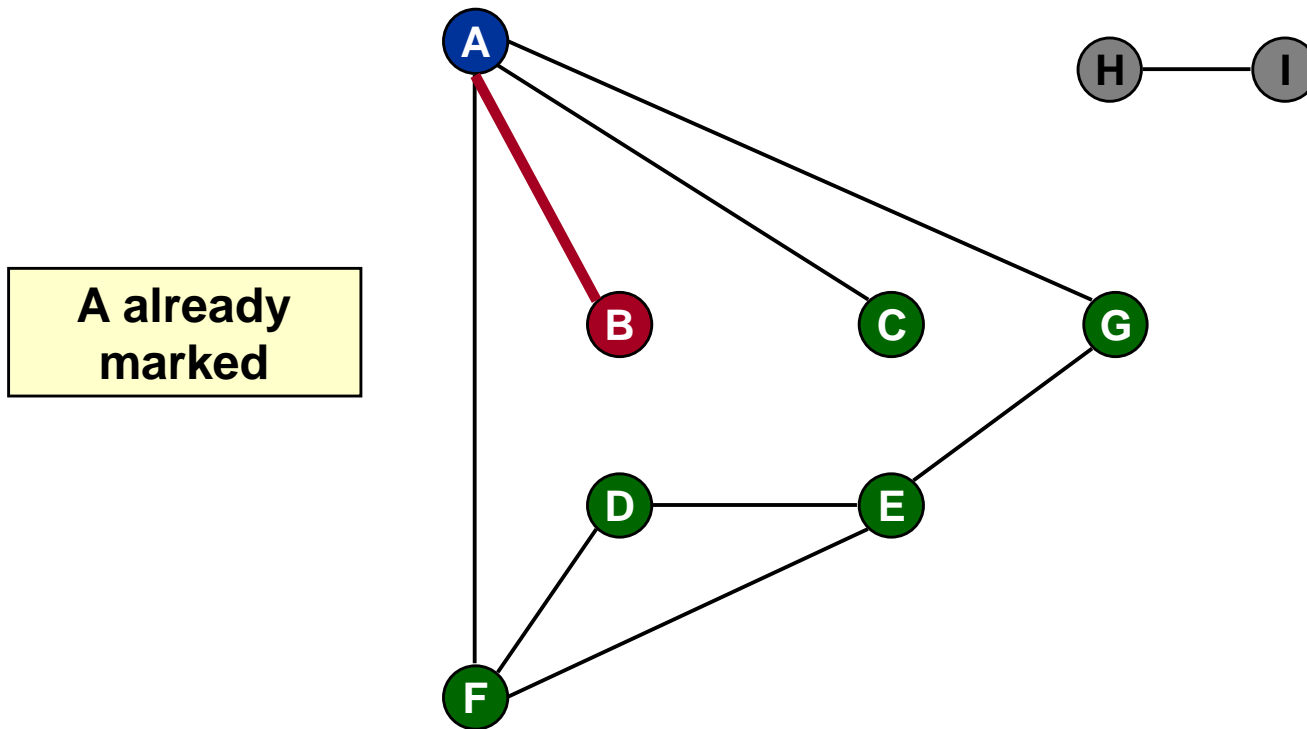
# Undirected Depth First Search



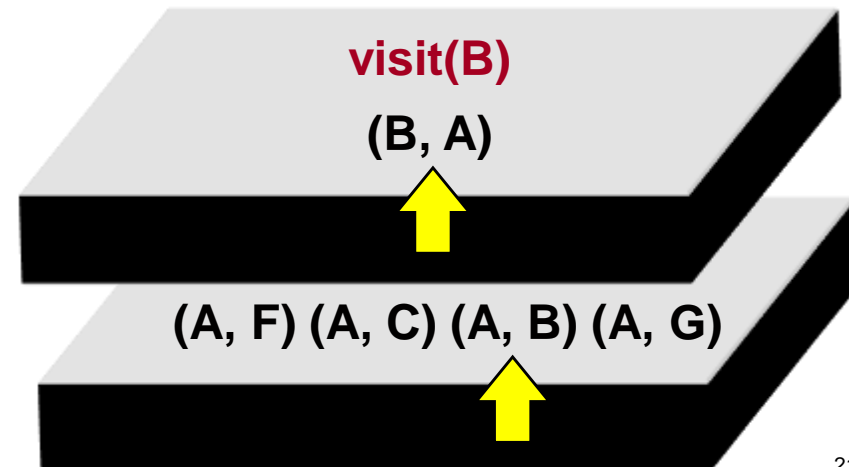
Stack



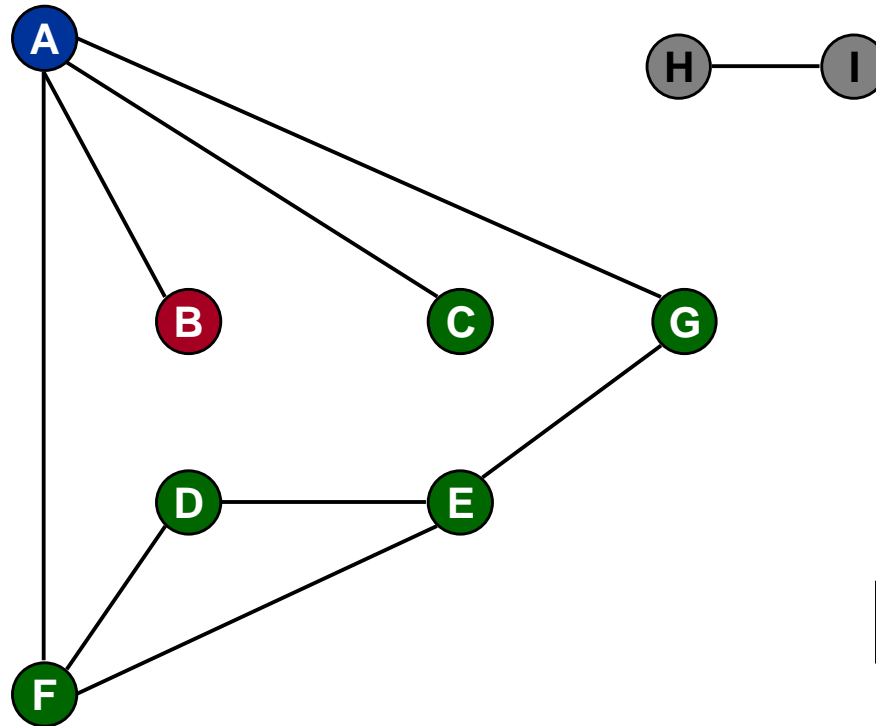
# Undirected Depth First Search



Stack



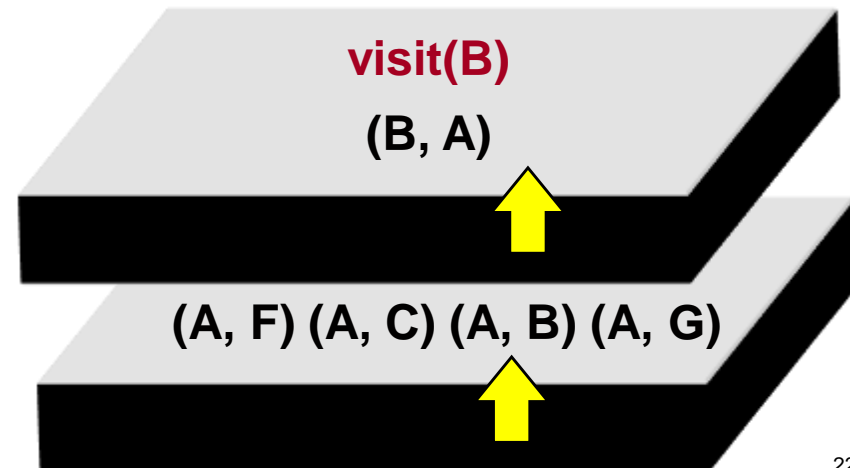
# Undirected Depth First Search



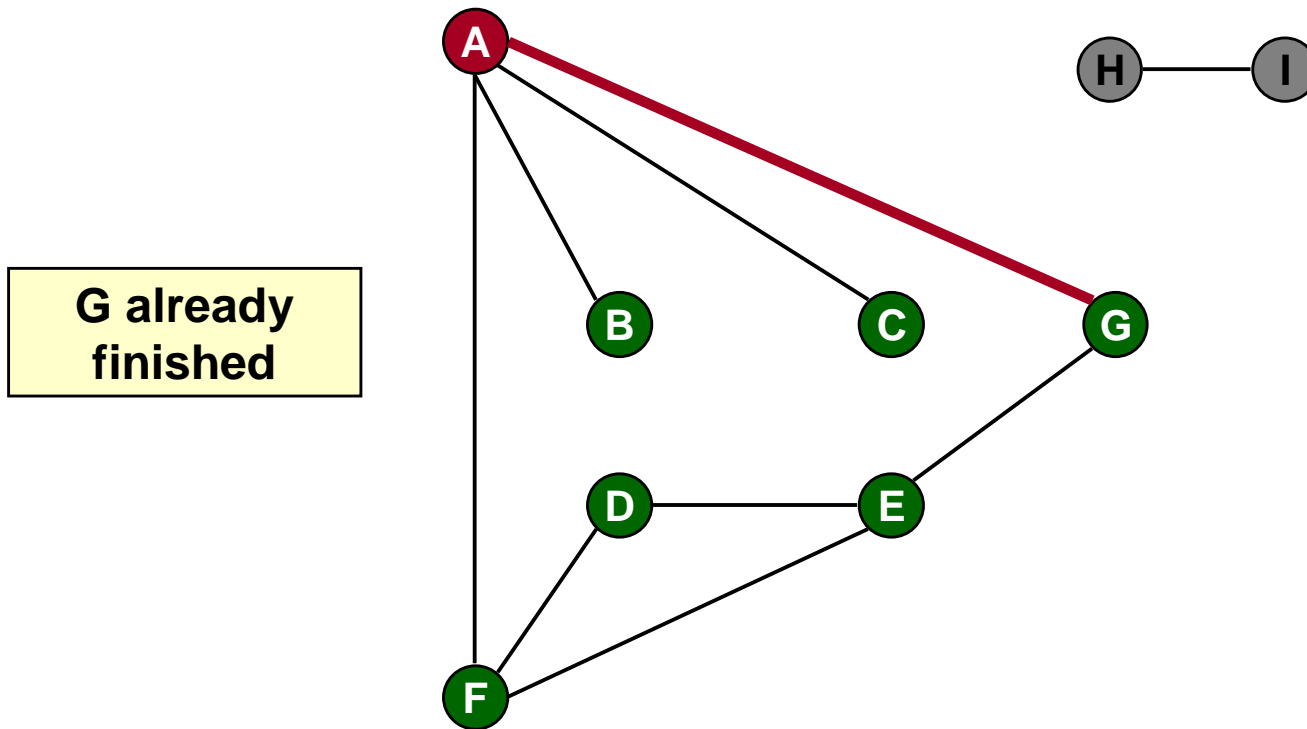
Undiscovered
Marked
Active
Finished

Finished B

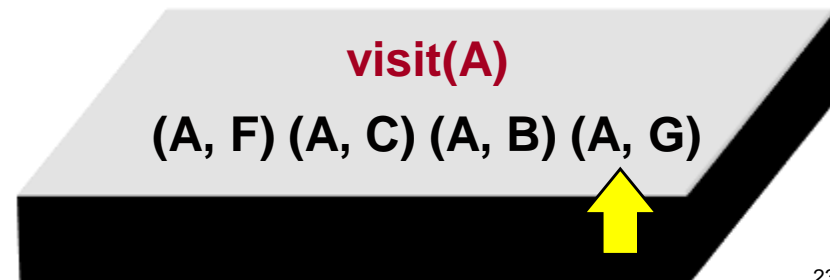
Stack



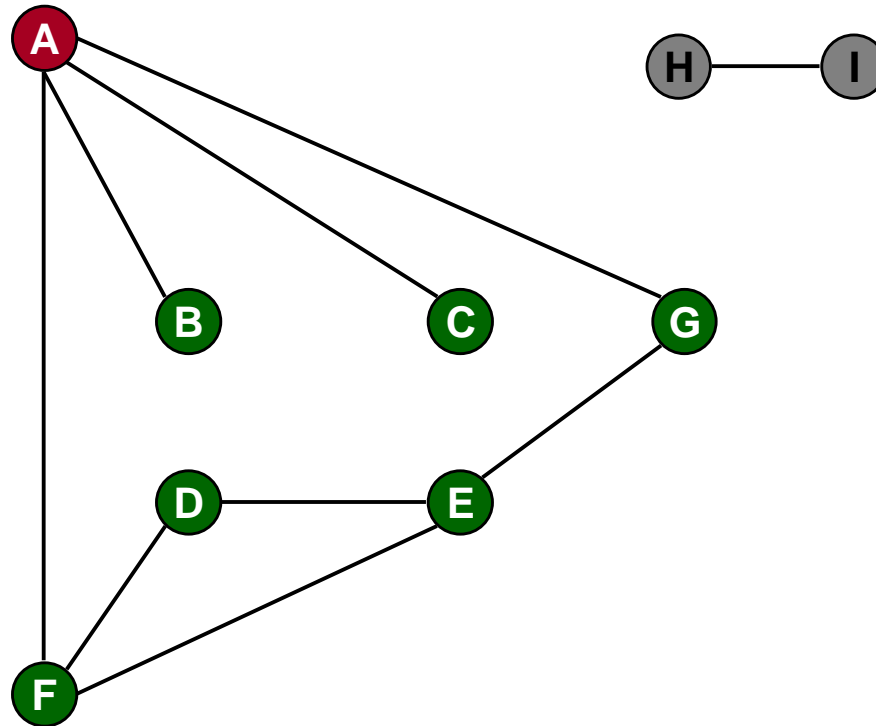
# Undirected Depth First Search



Stack

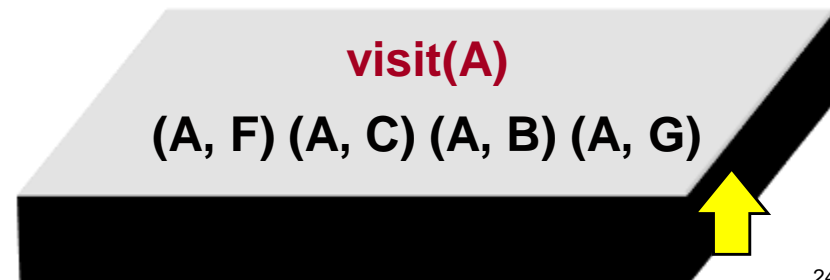


# Undirected Depth First Search



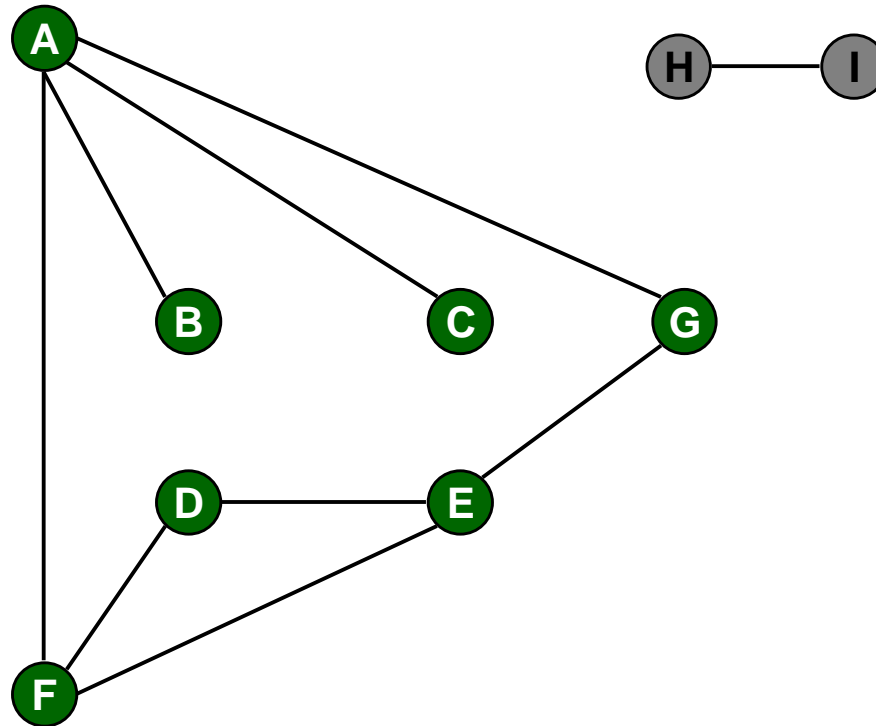
Stack

Finished A



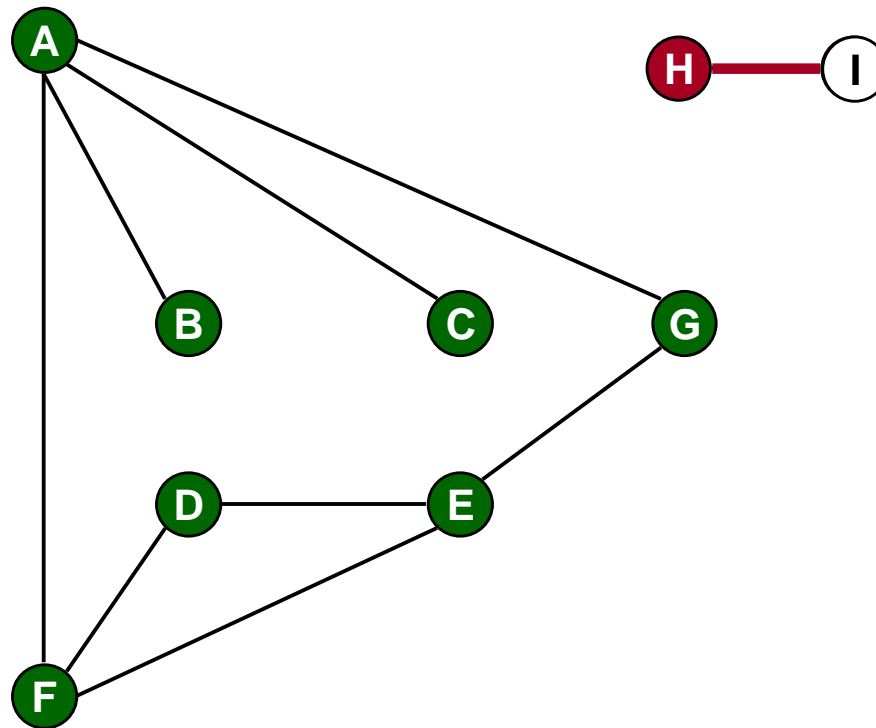


# Undirected Depth First Search



Stack

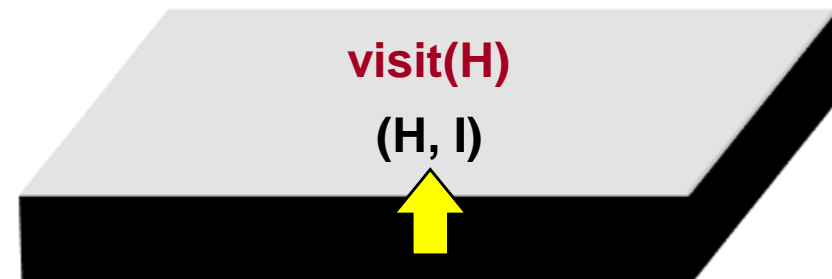
# Undirected Depth First Search



I newly  
discovered

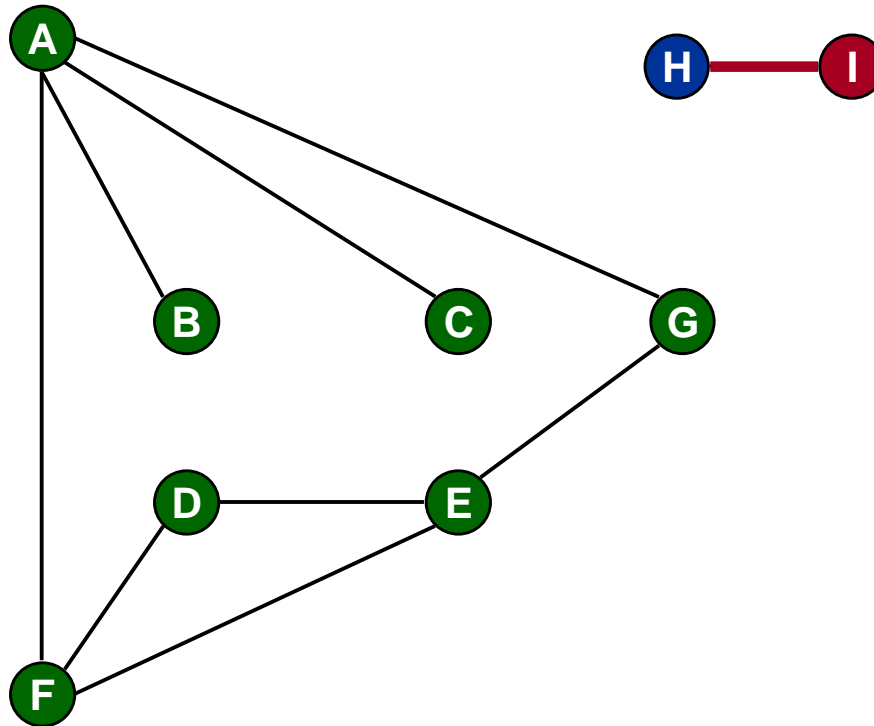


Stack



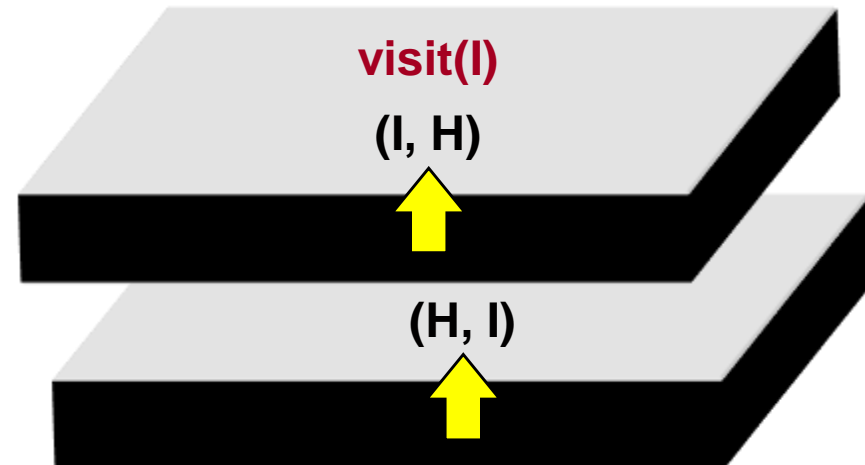
# Undirected Depth First Search

H already marked

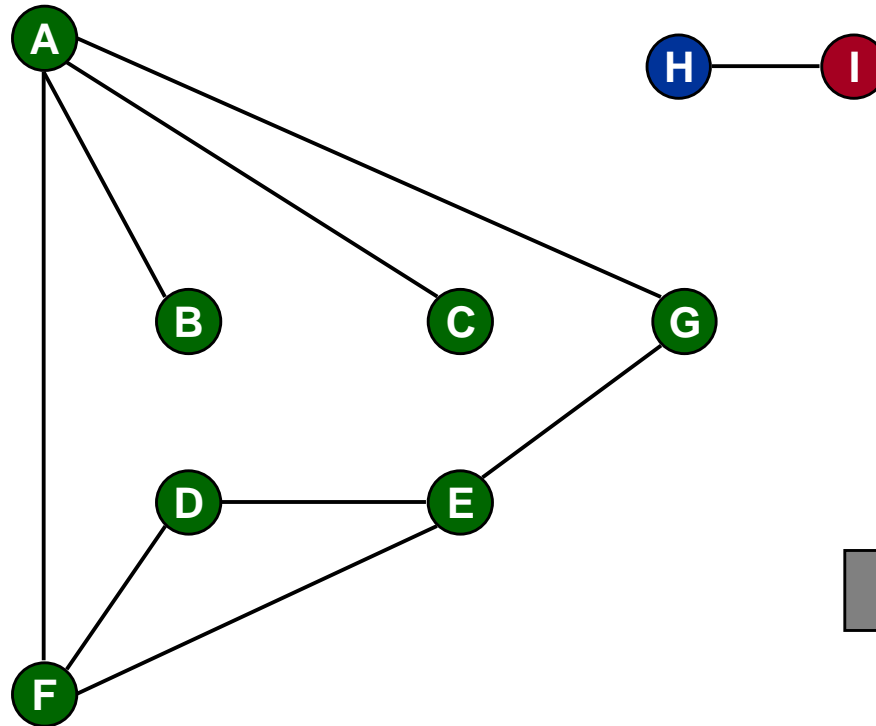


Undiscovered
Marked
Active
Finished

Stack

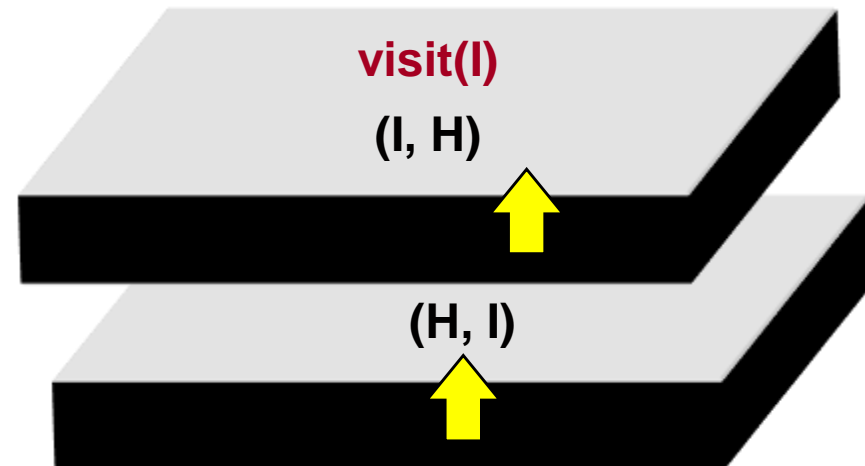


# Undirected Depth First Search

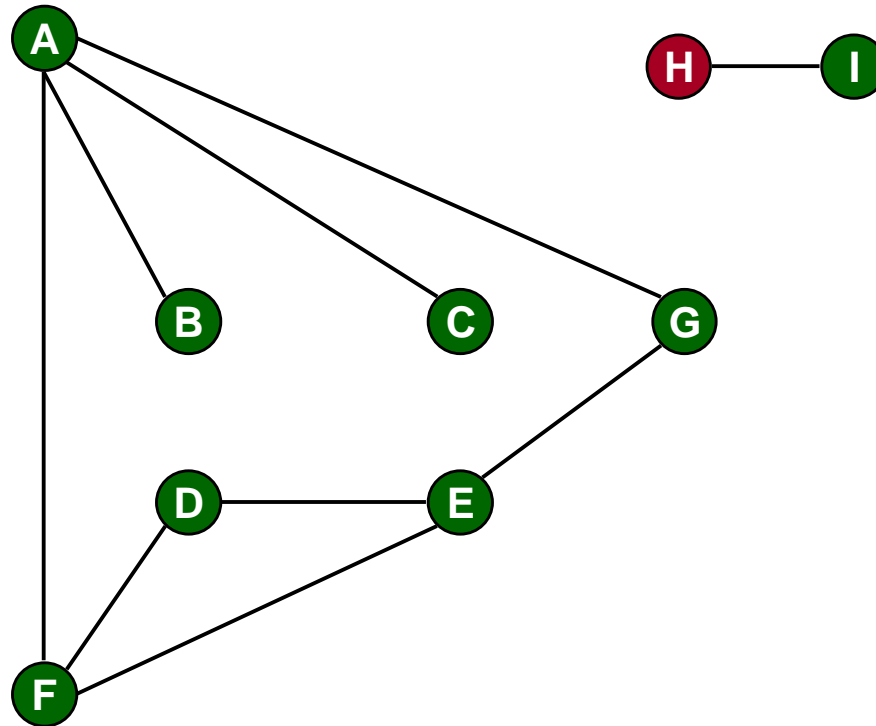


Finished I

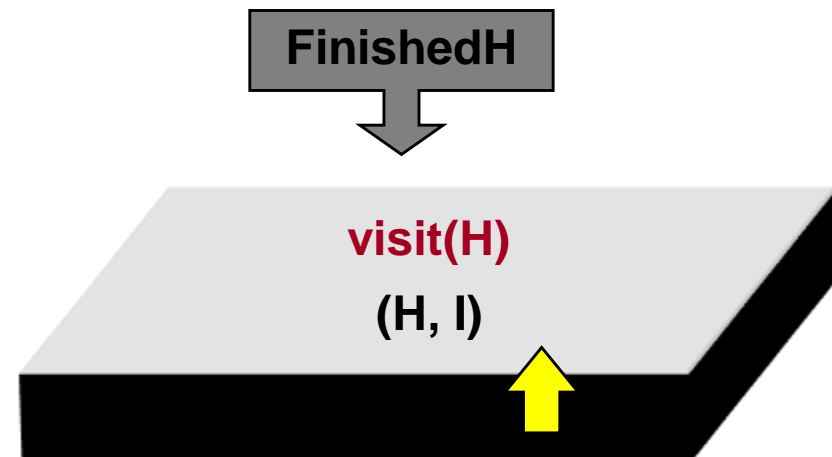
Stack



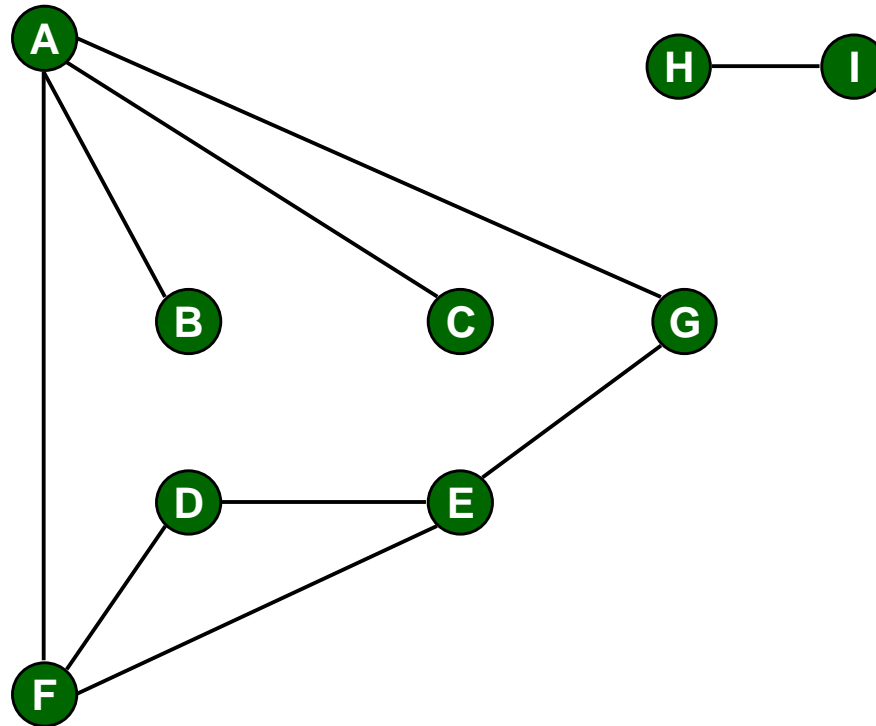
# Undirected Depth First Search



Stack



# Undirected Depth First Search



Stack