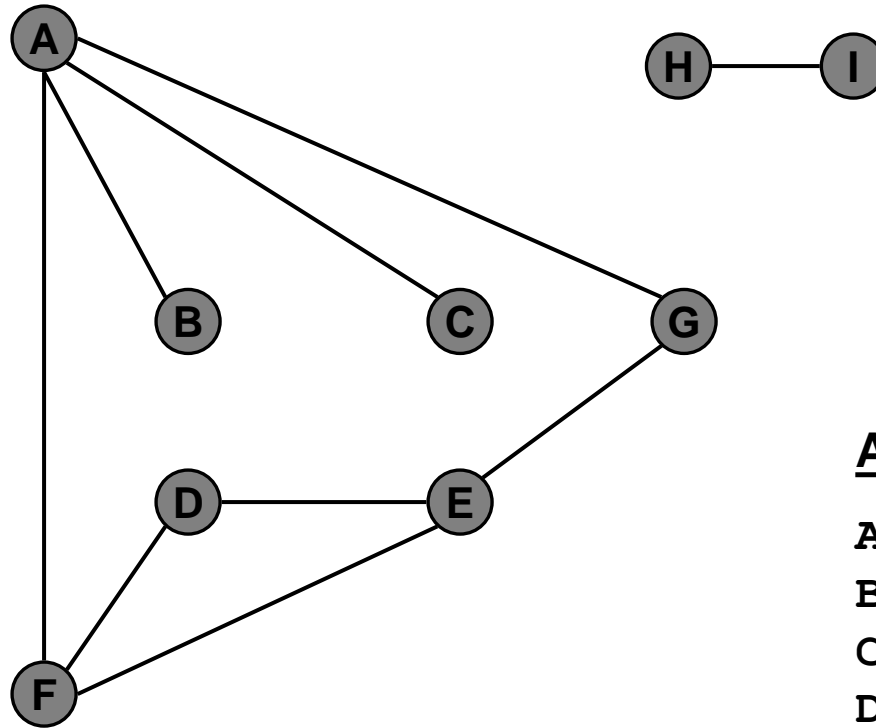


# Undirected Depth First Search



## Adjacency Lists

**A: F C B G**

**B: A**

**C: A**

**D: F E**

**E: G F D**

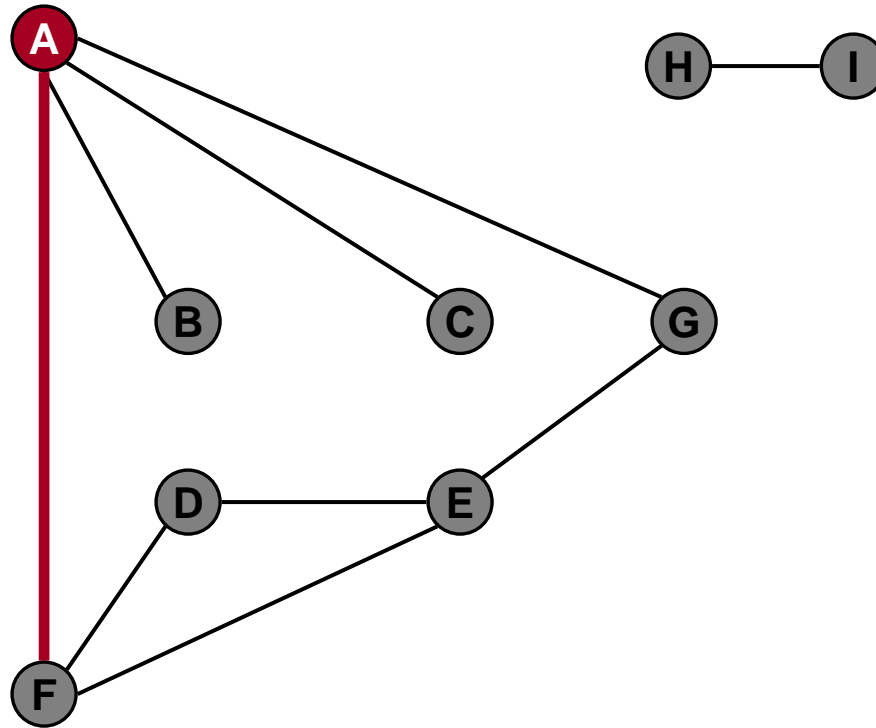
**F: A E D**

**G: E A**

**H: I**

**I: H**

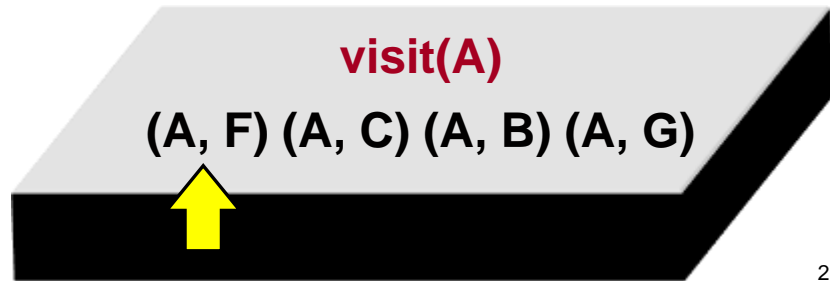
# Undirected Depth First Search



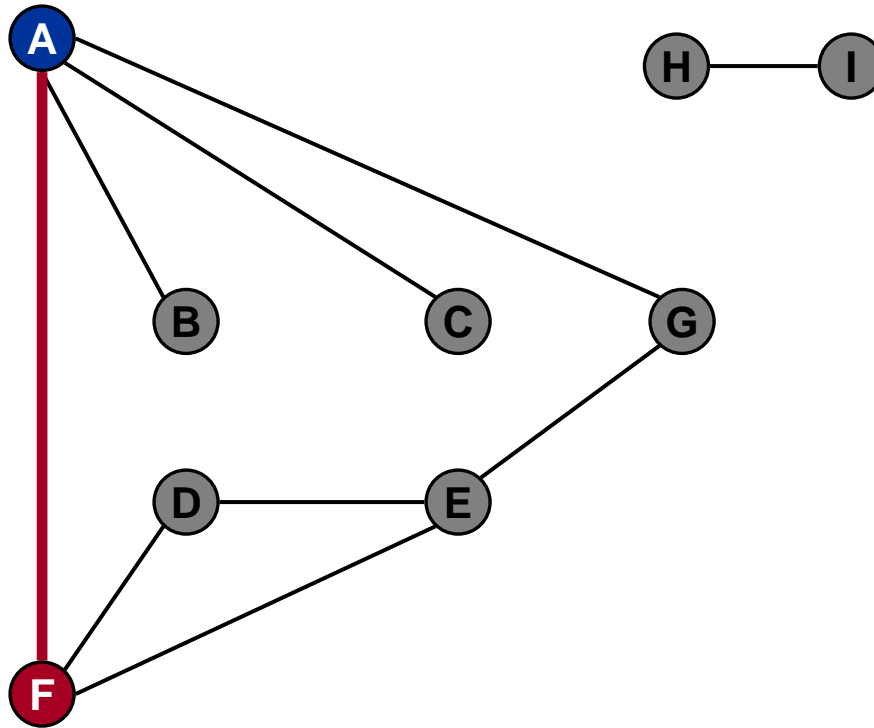
F newly discovered



Stack



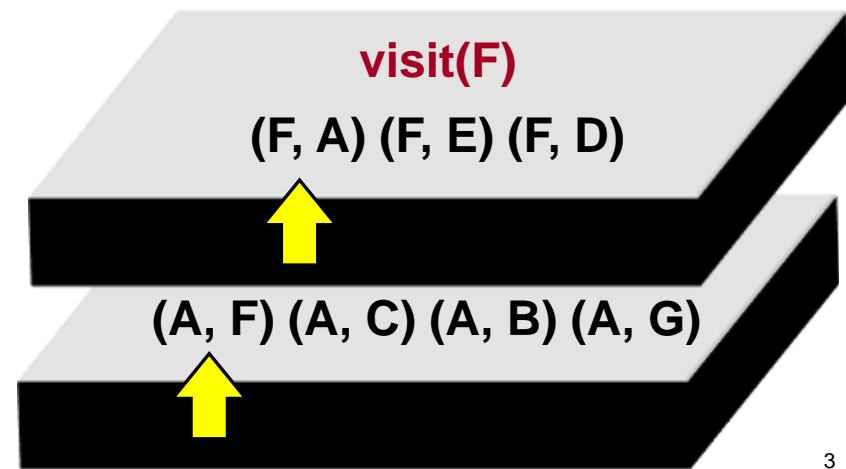
# Undirected Depth First Search



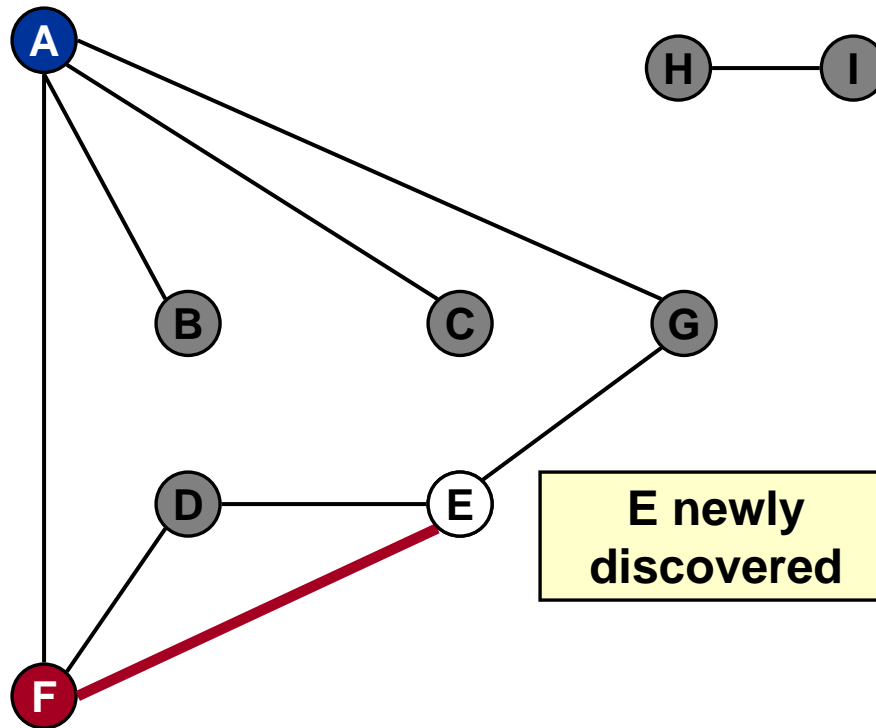
A already Explored



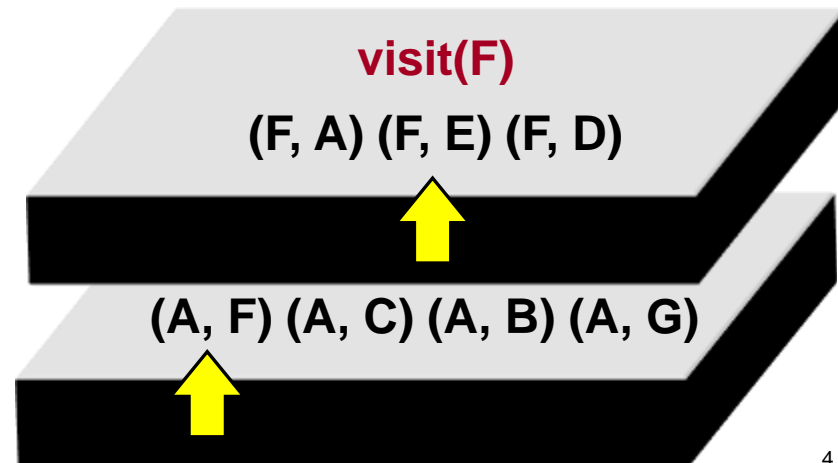
Stack



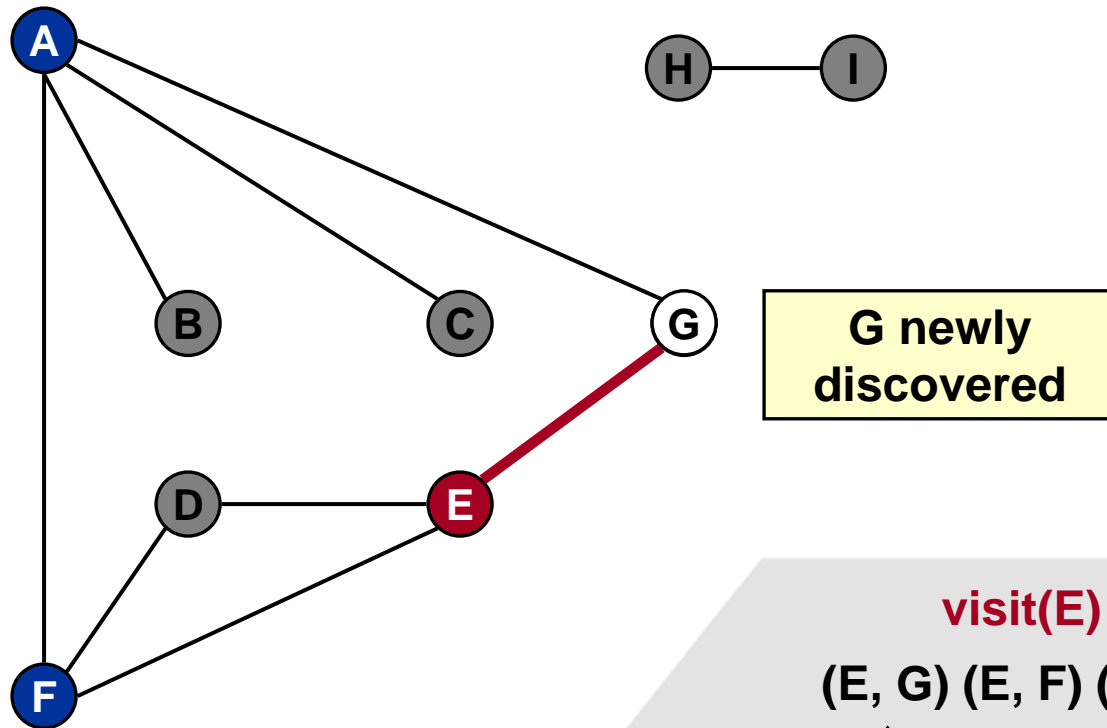
# Undirected Depth First Search



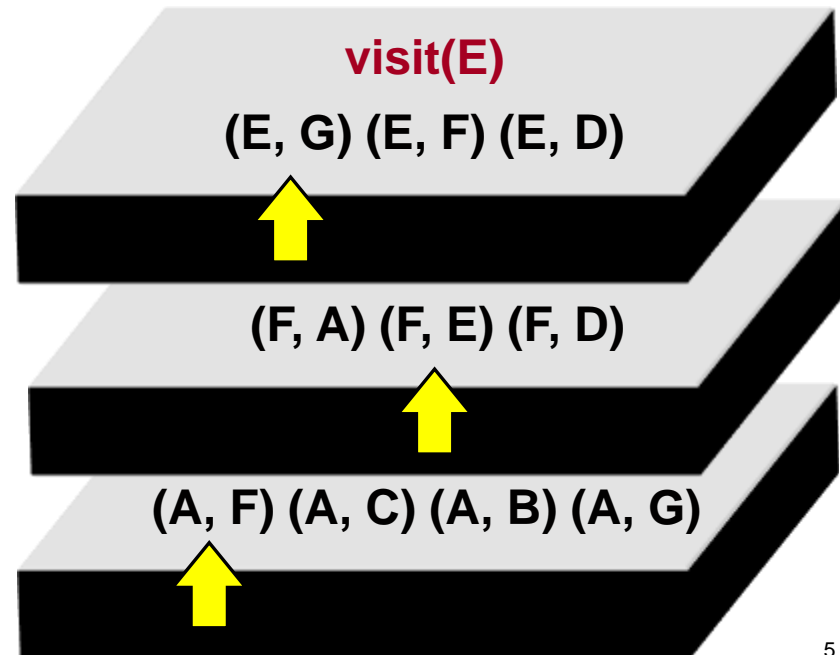
Stack



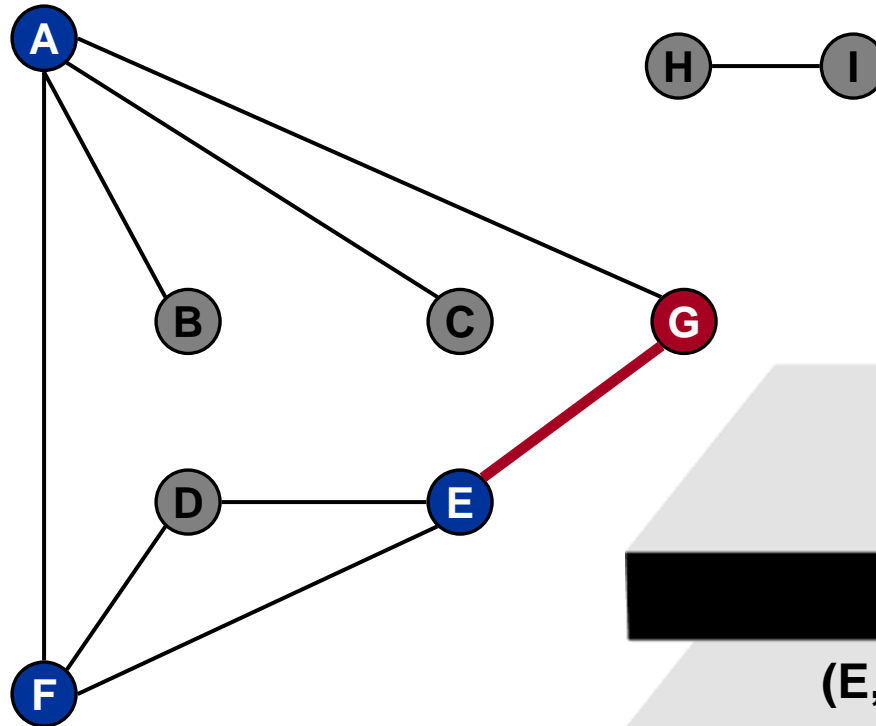
# Undirected Depth First Search



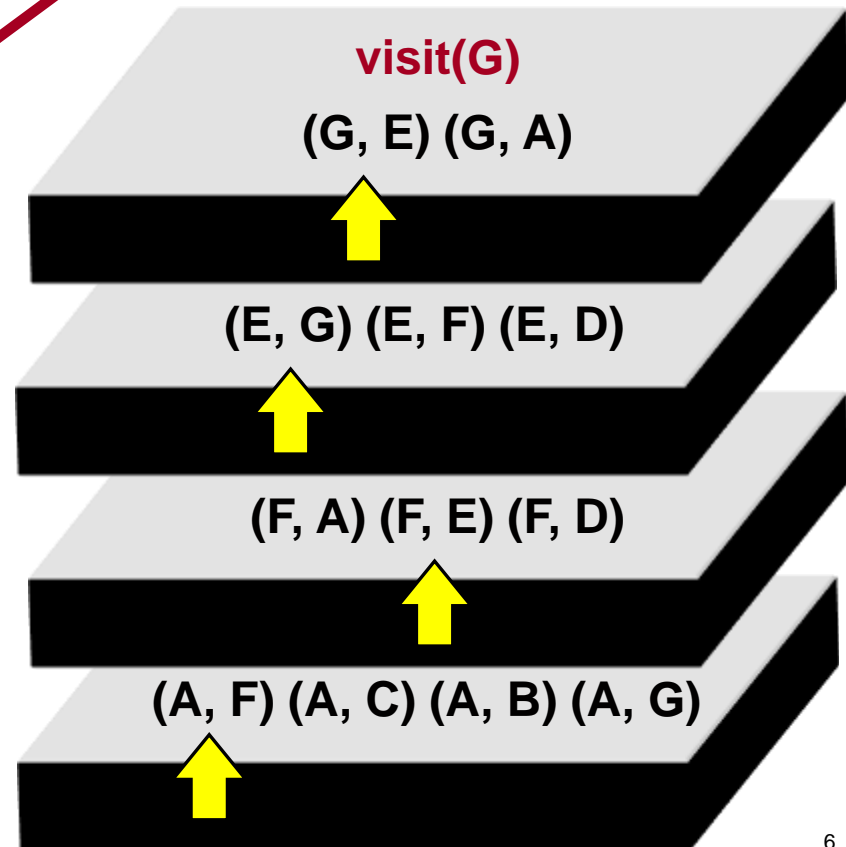
Stack



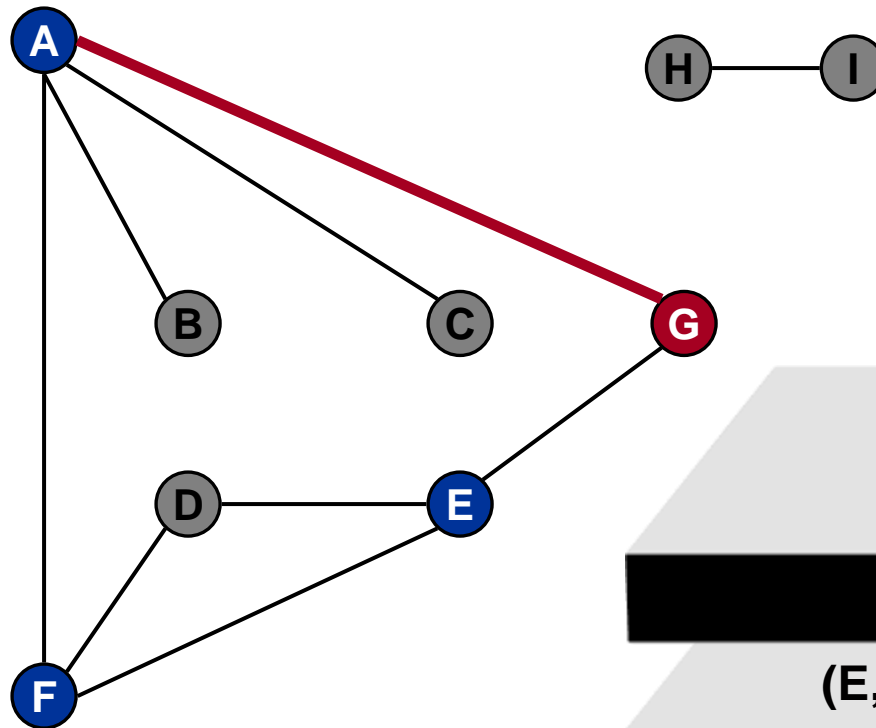
# Undirected Depth First Search



E already Explored



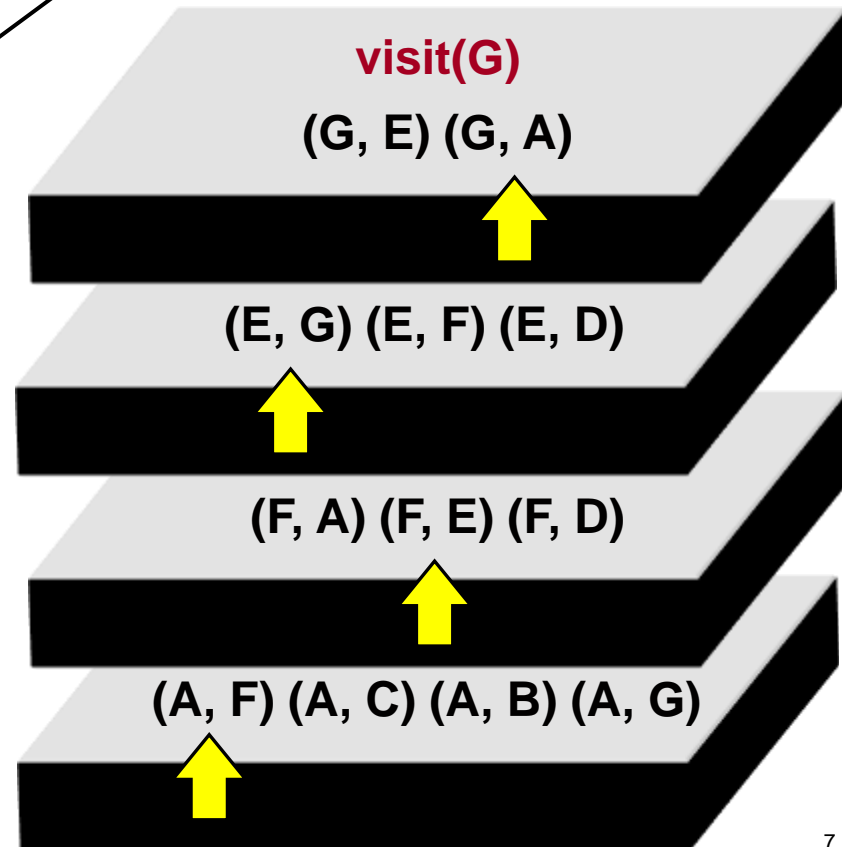
# Undirected Depth First Search



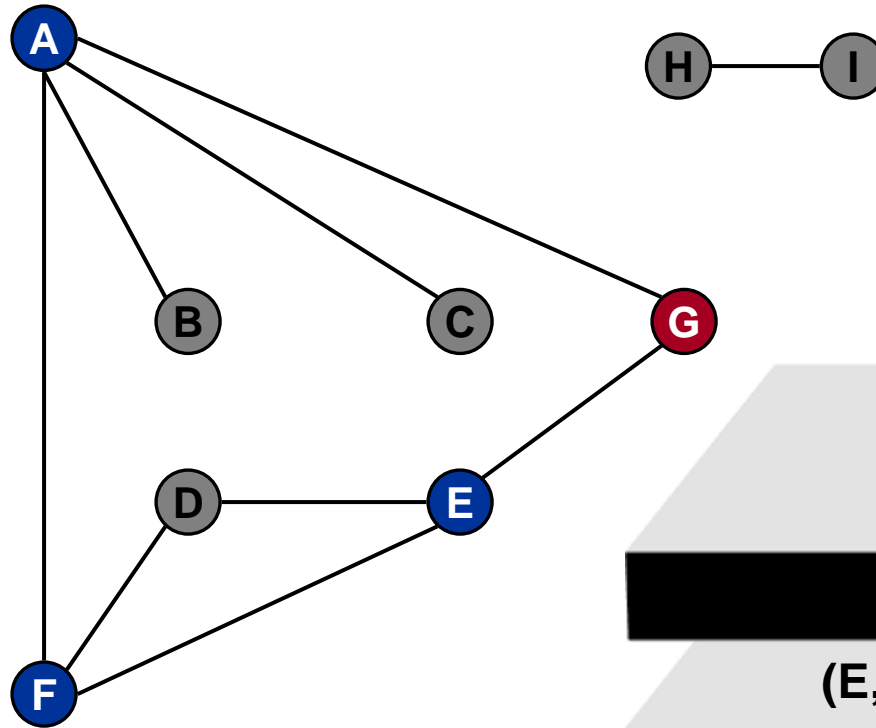
A already  
Explored



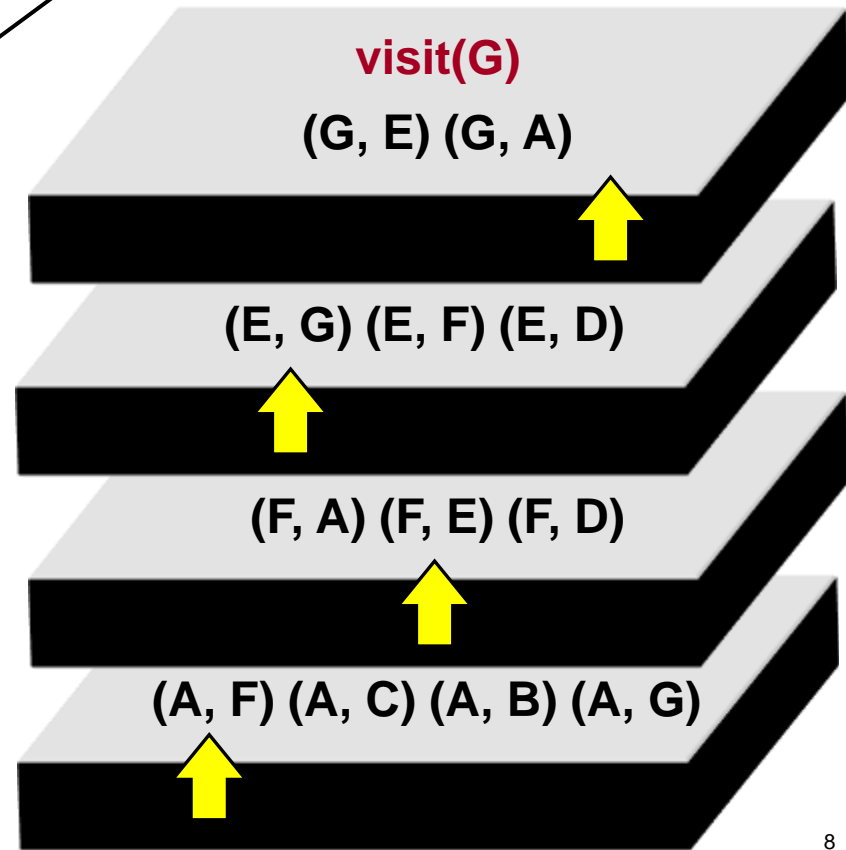
Stack



# Undirected Depth First Search

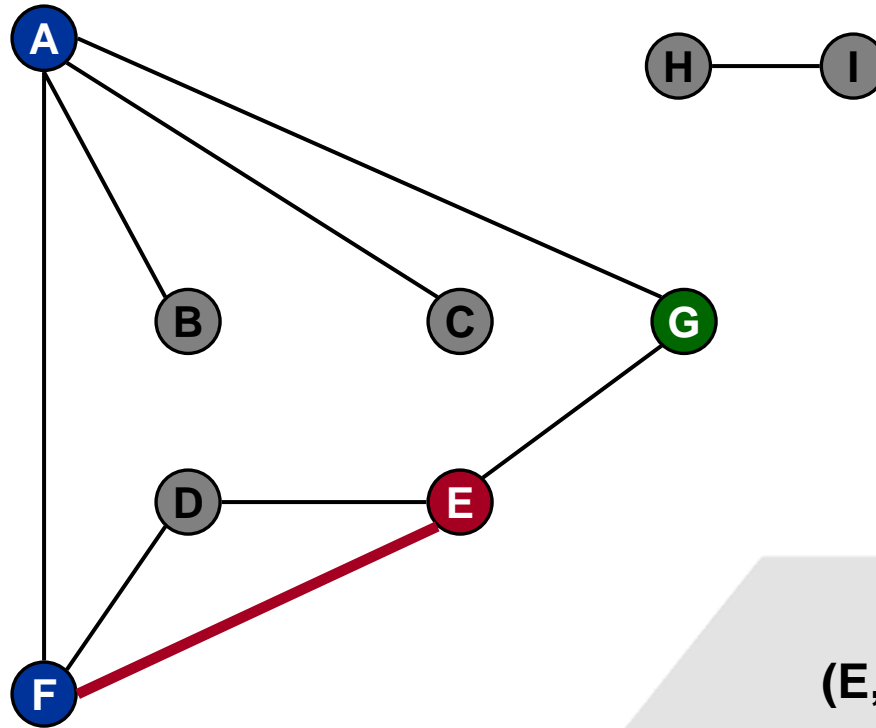


Finished G

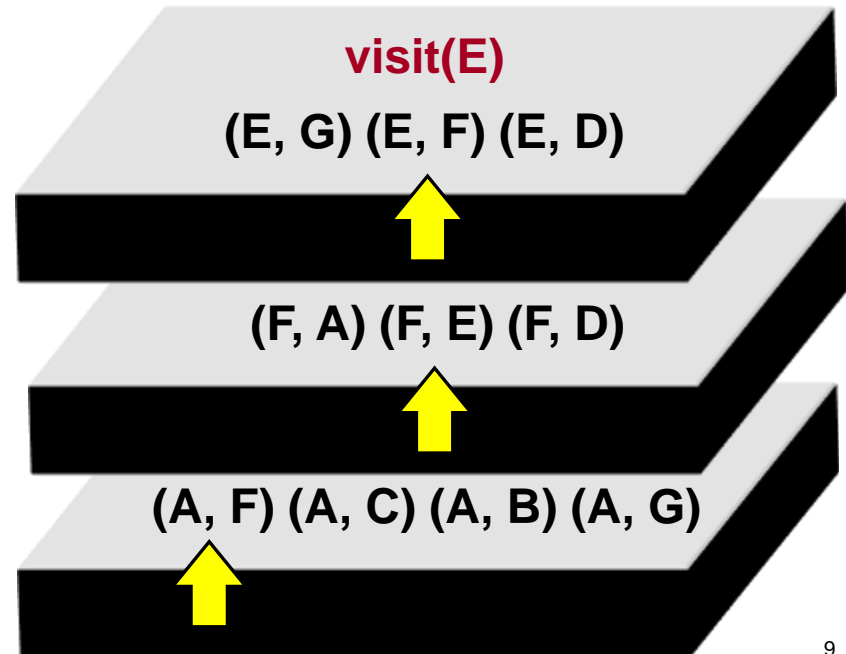




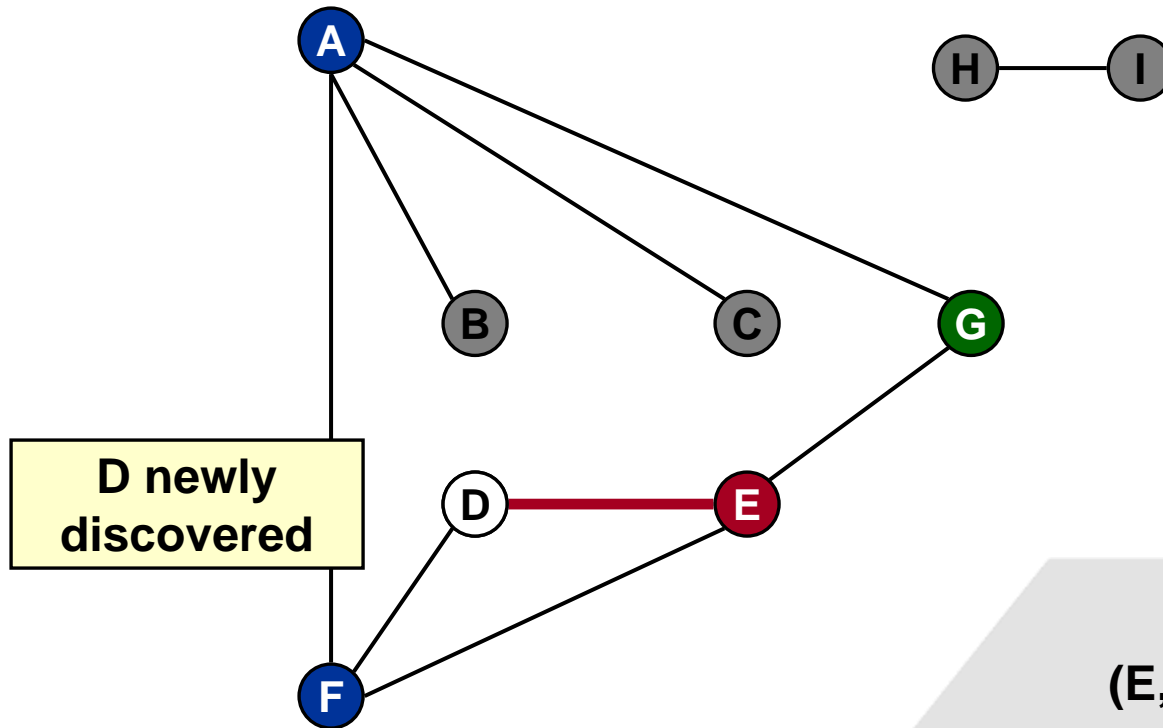
# Undirected Depth First Search



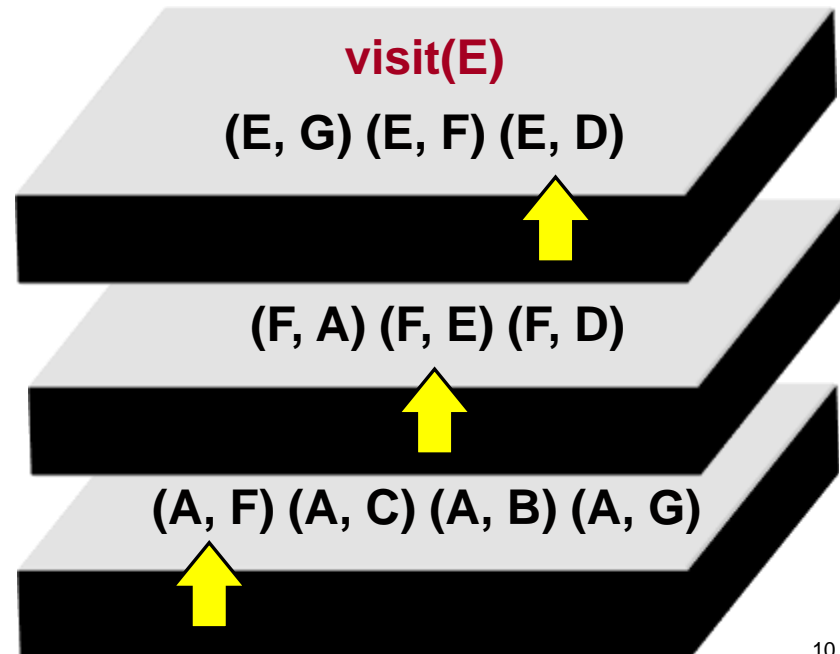
F already Explored



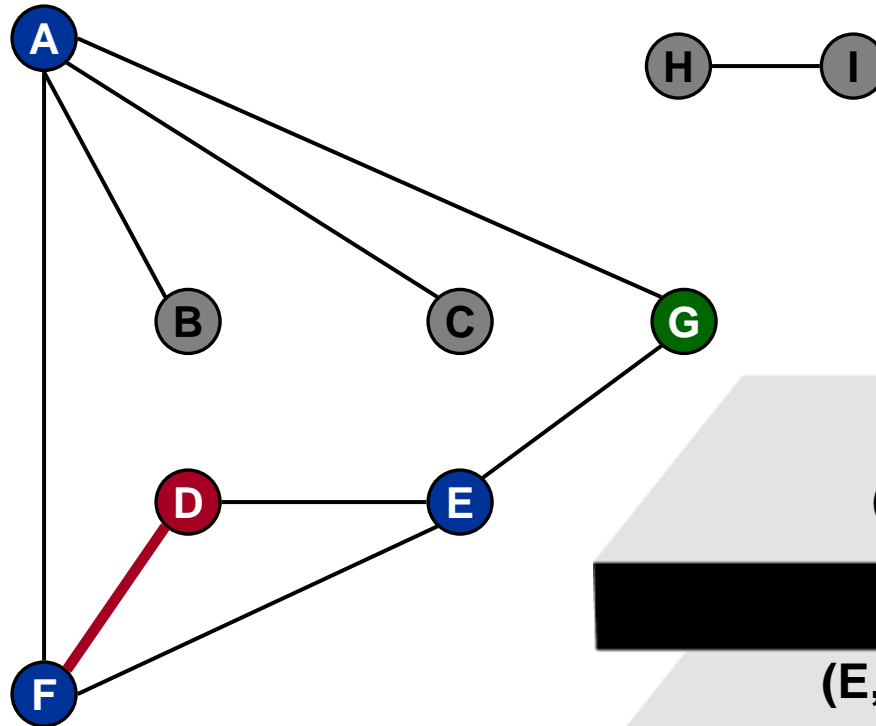
# Undirected Depth First Search



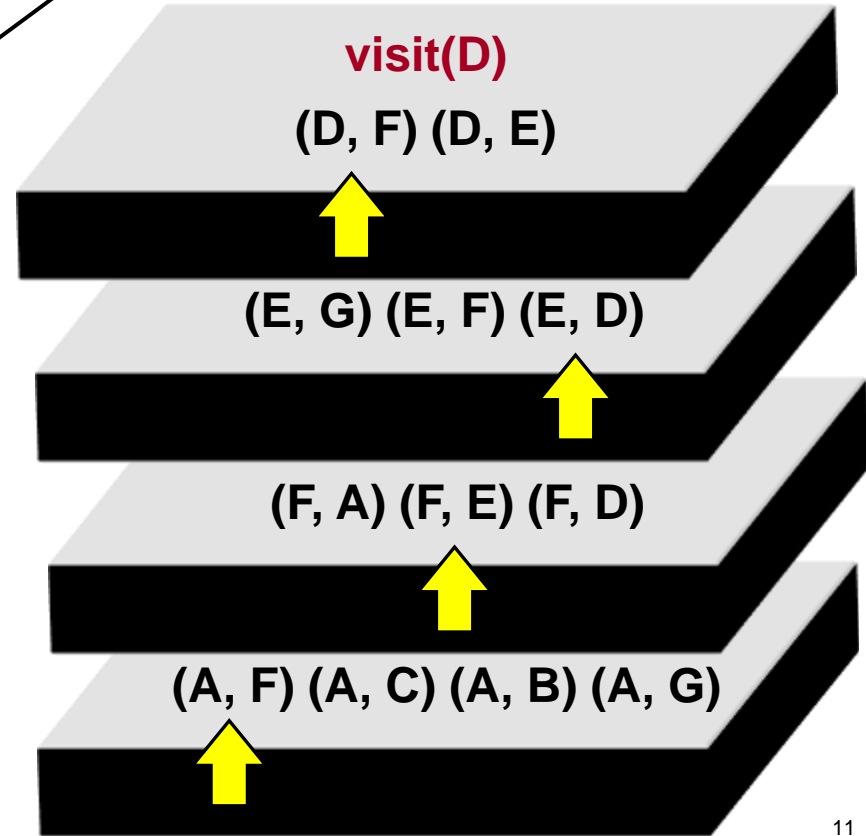
Stack



# Undirected Depth First Search

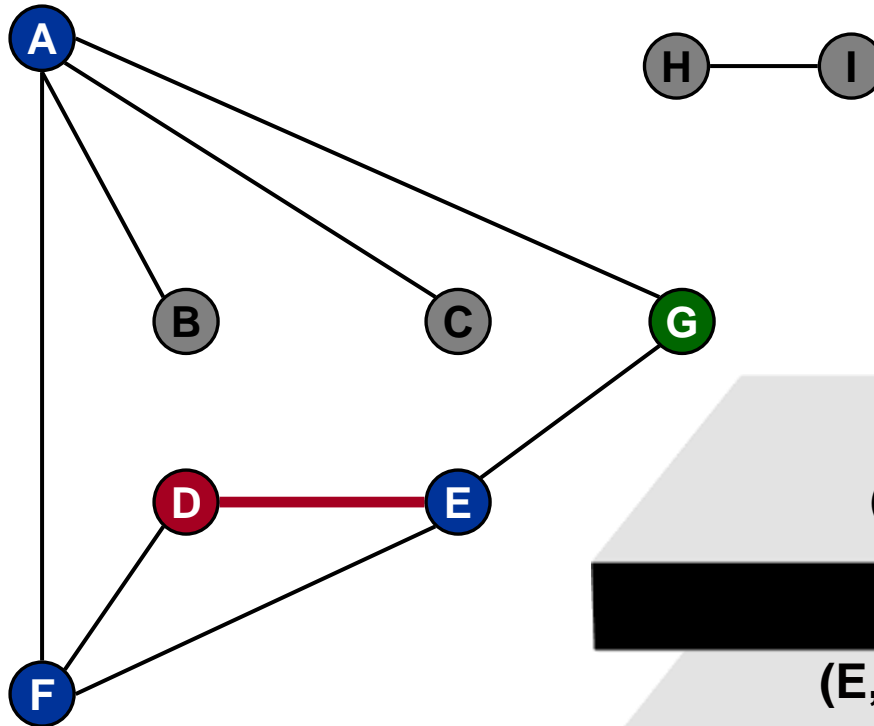


F already Explored

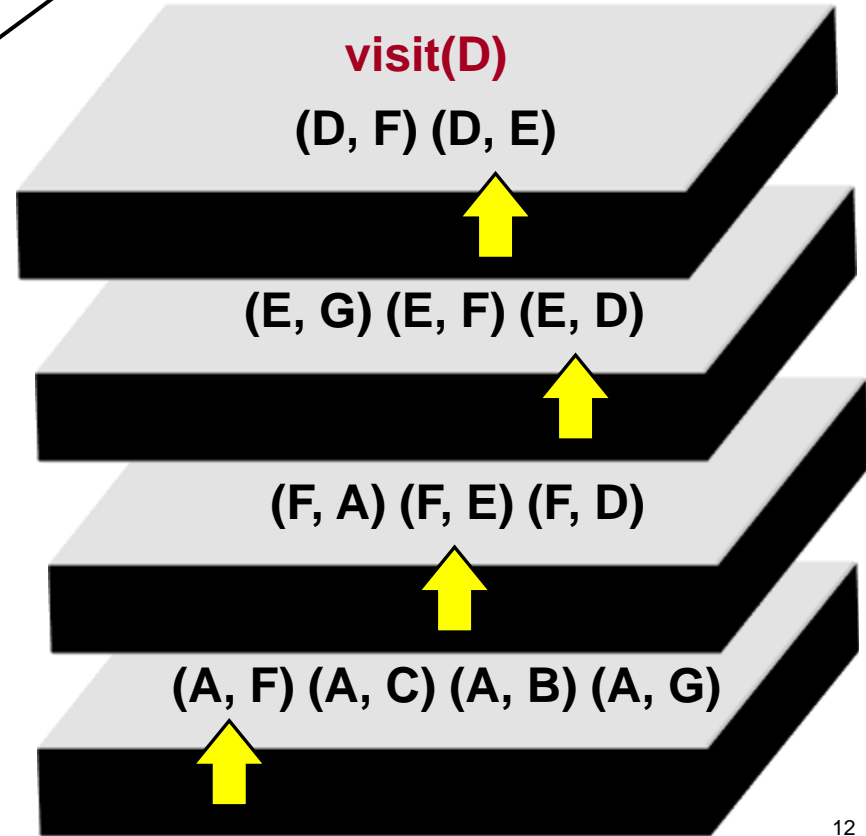


Stack

# Undirected Depth First Search

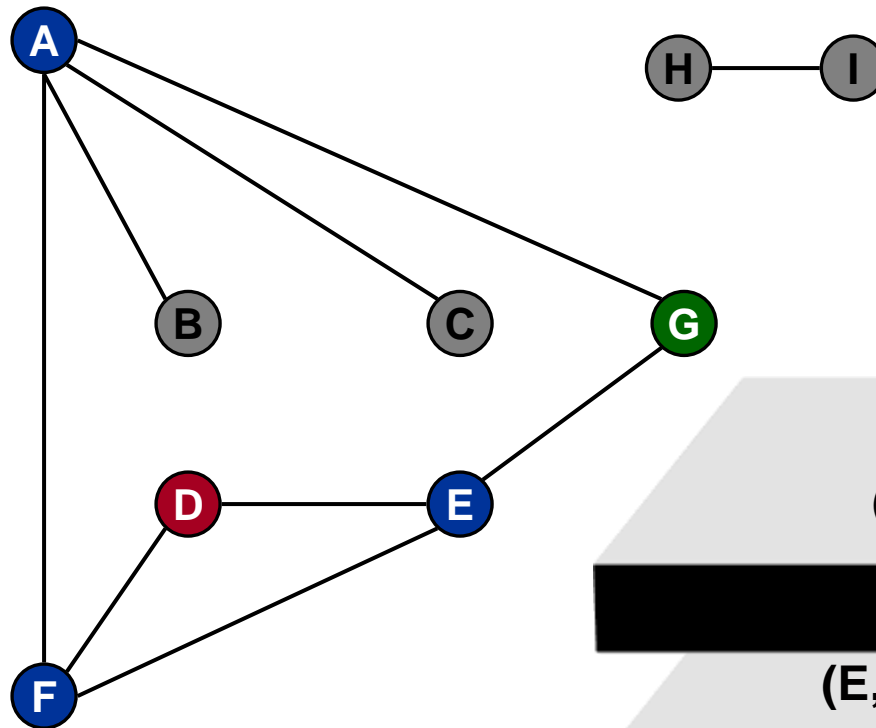


E already Explored

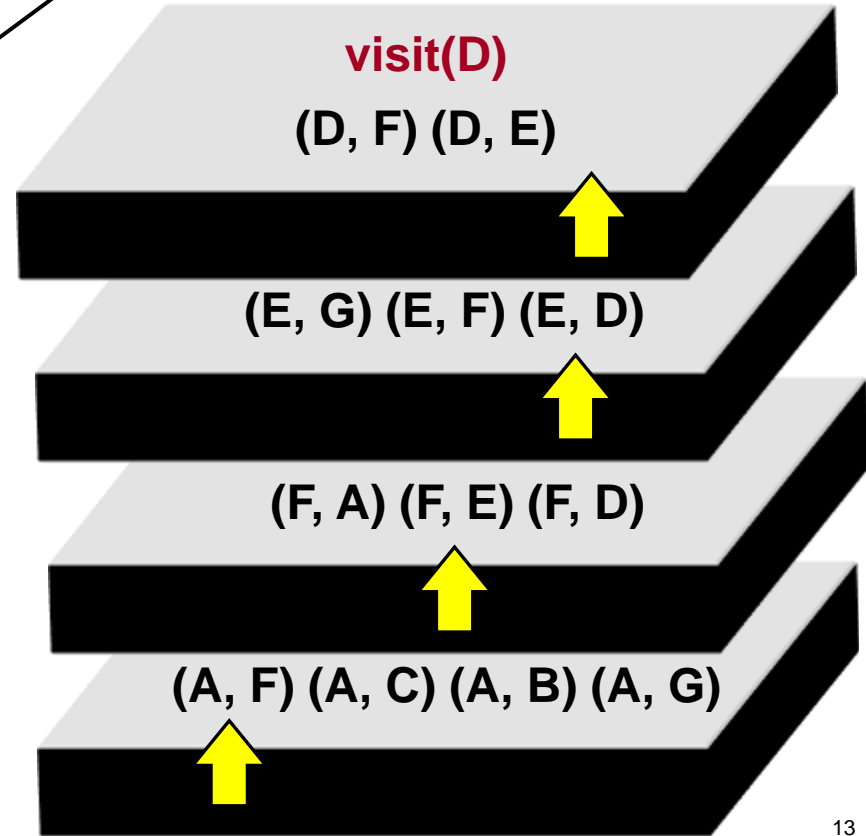


Stack

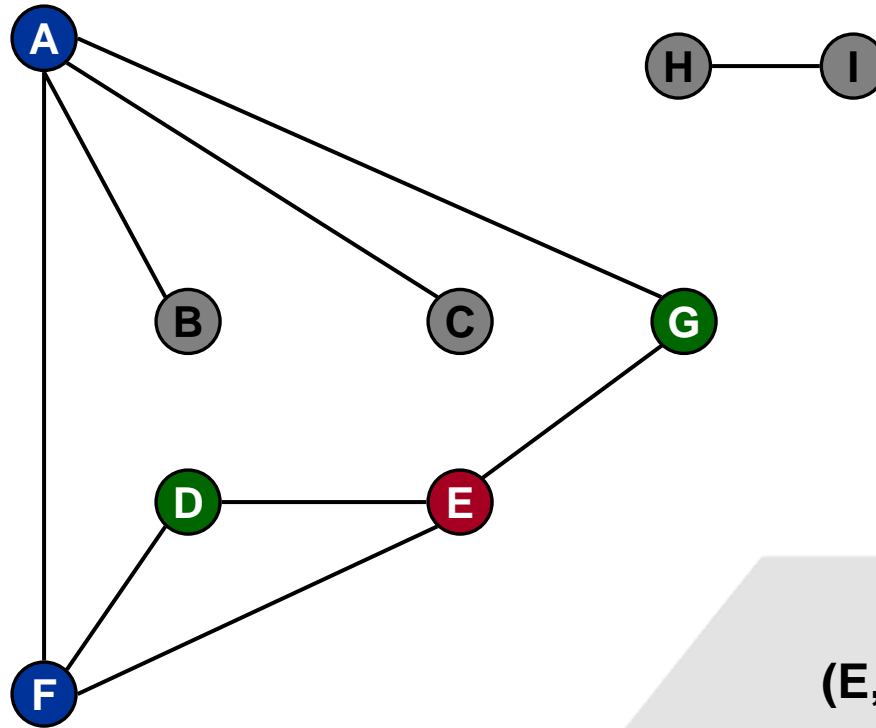
# Undirected Depth First Search



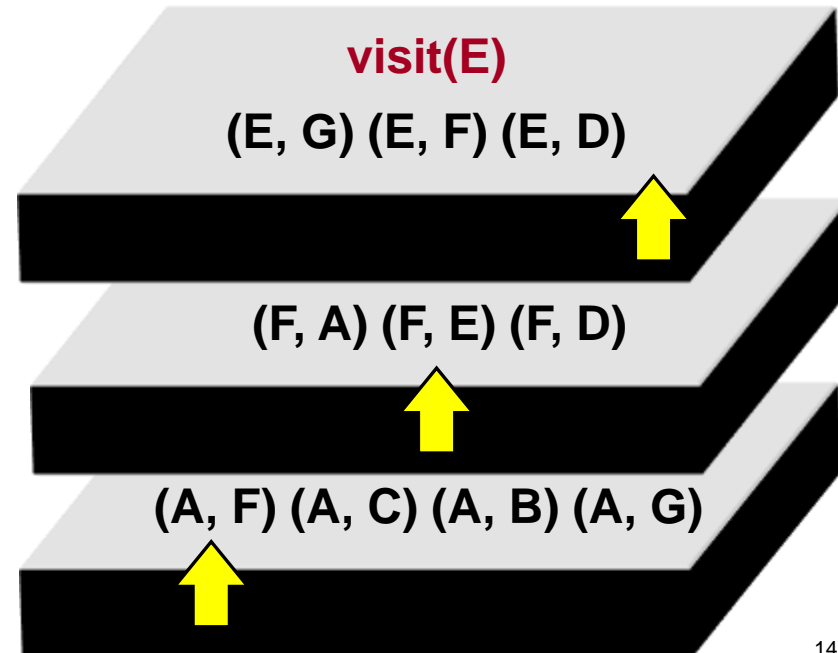
Finished D



# Undirected Depth First Search

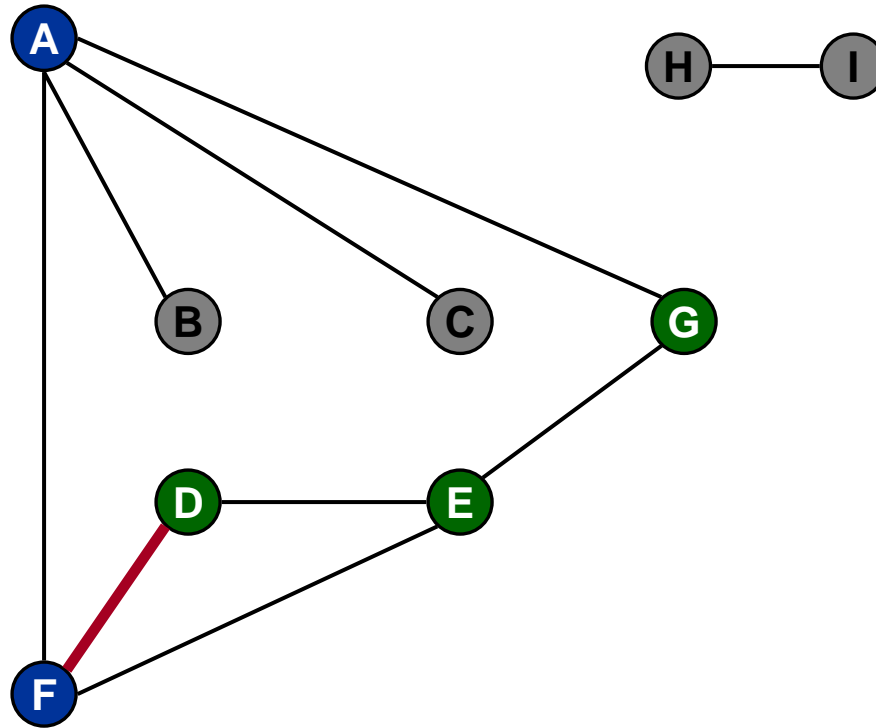


Finished E

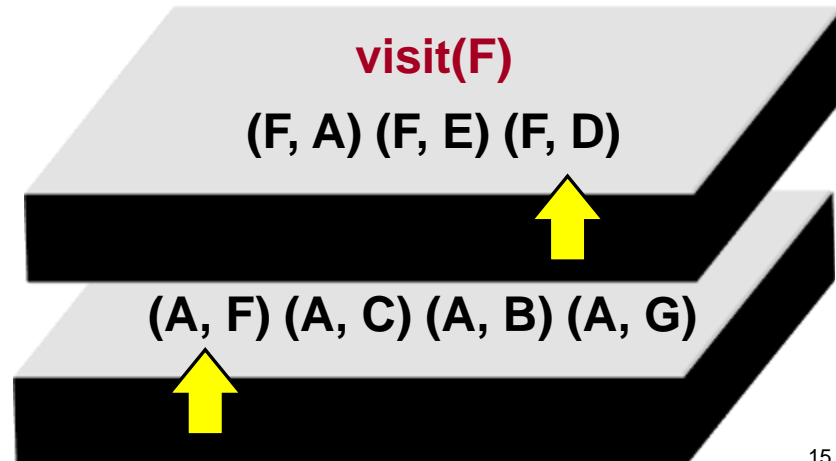


Stack

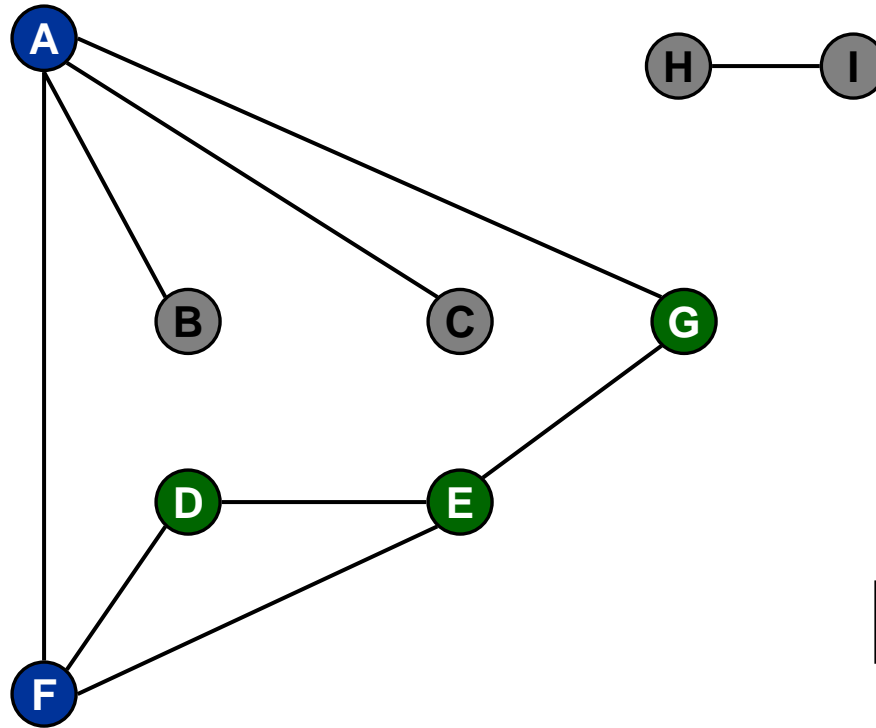
# Undirected Depth First Search



Stack



# Undirected Depth First Search



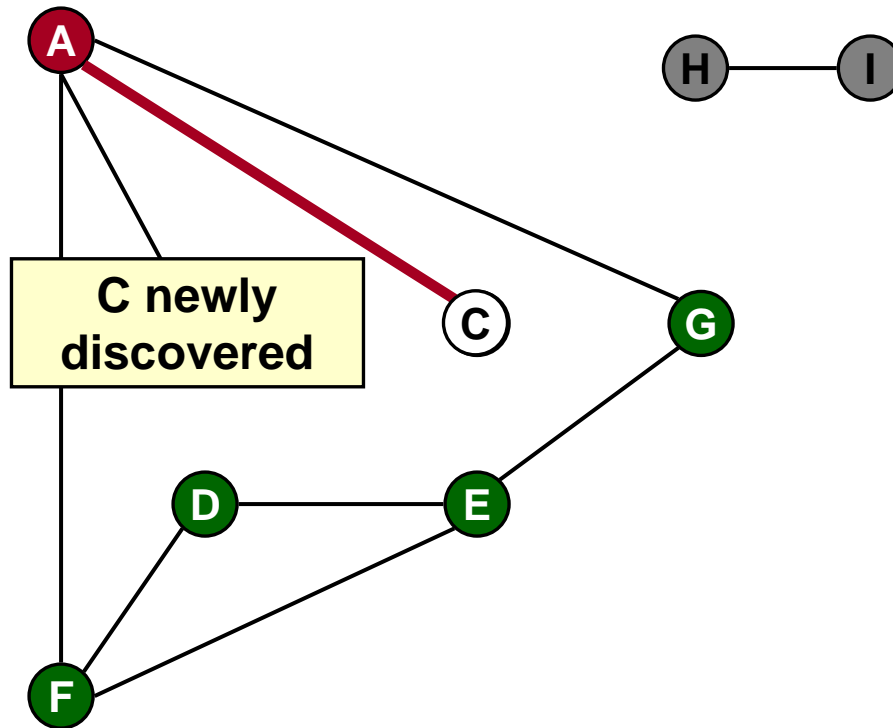
Finished F



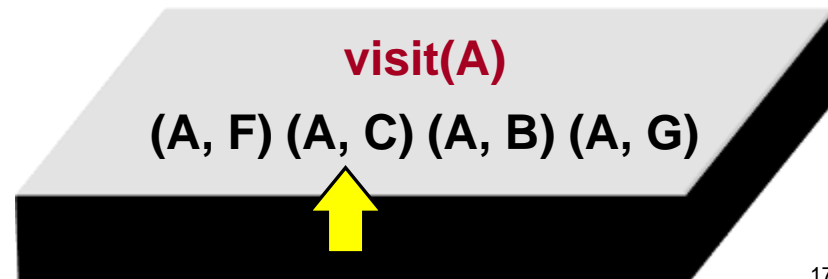
Stack



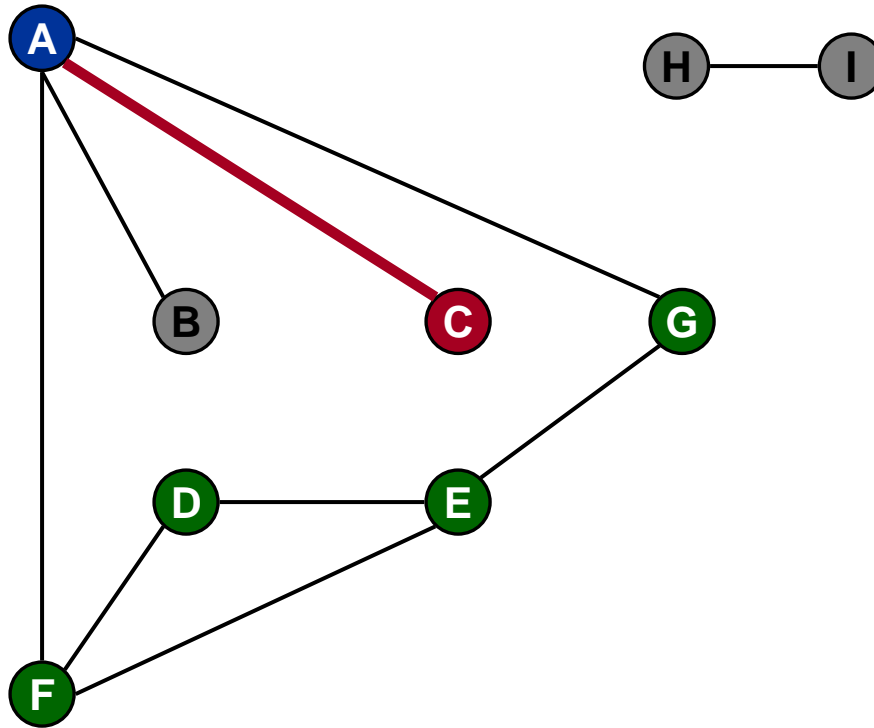
# Undirected Depth First Search



Stack



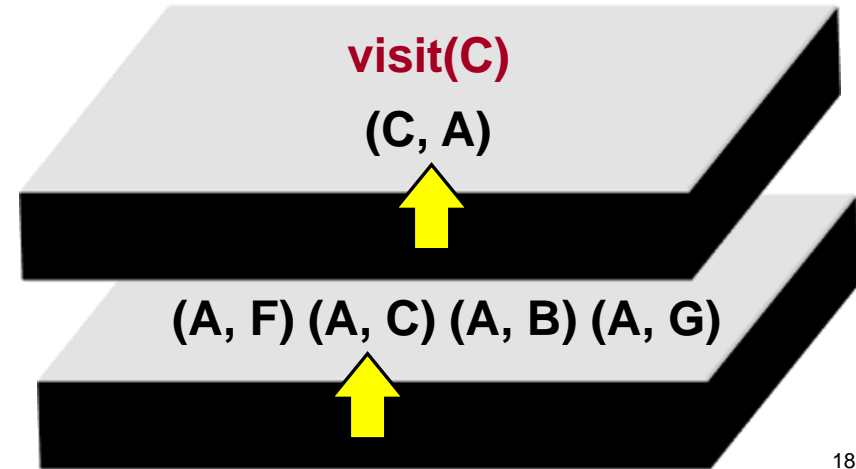
# Undirected Depth First Search



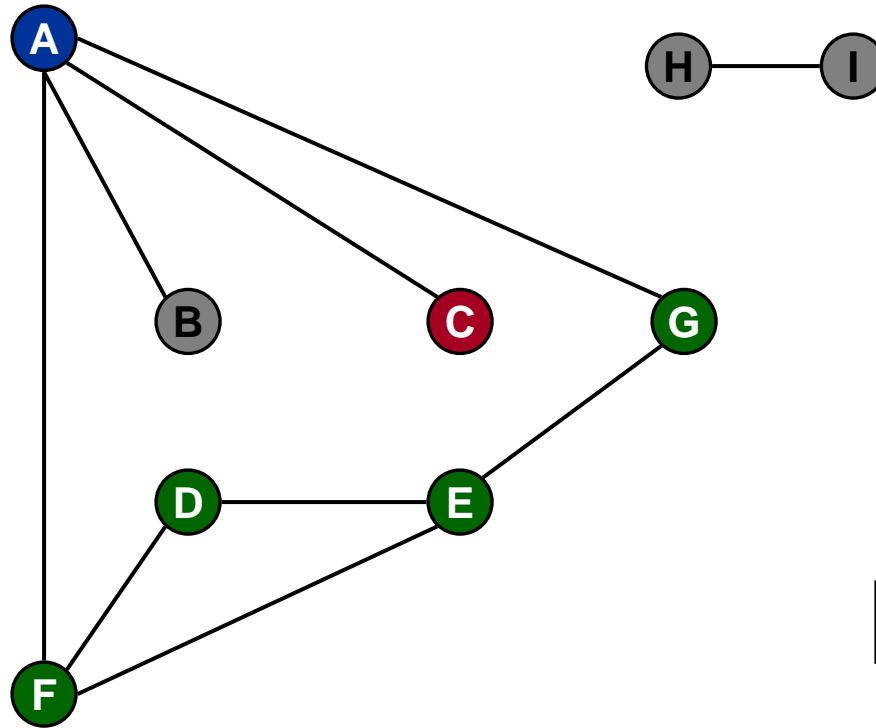
A already Explored



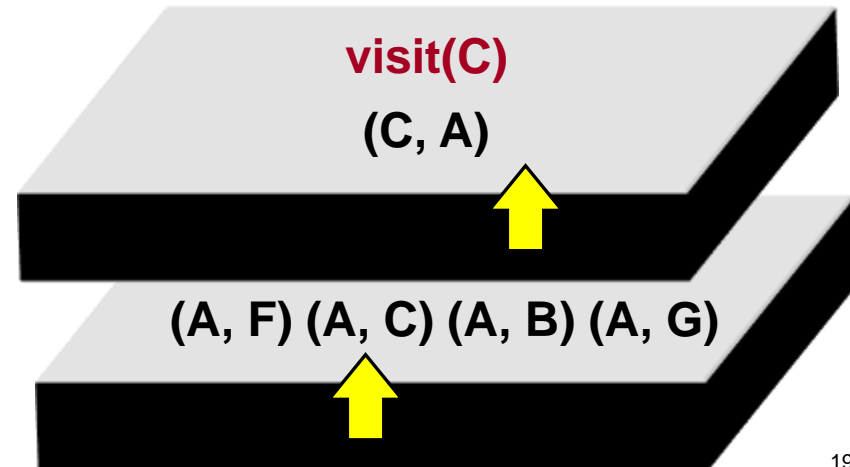
Stack



# Undirected Depth First Search

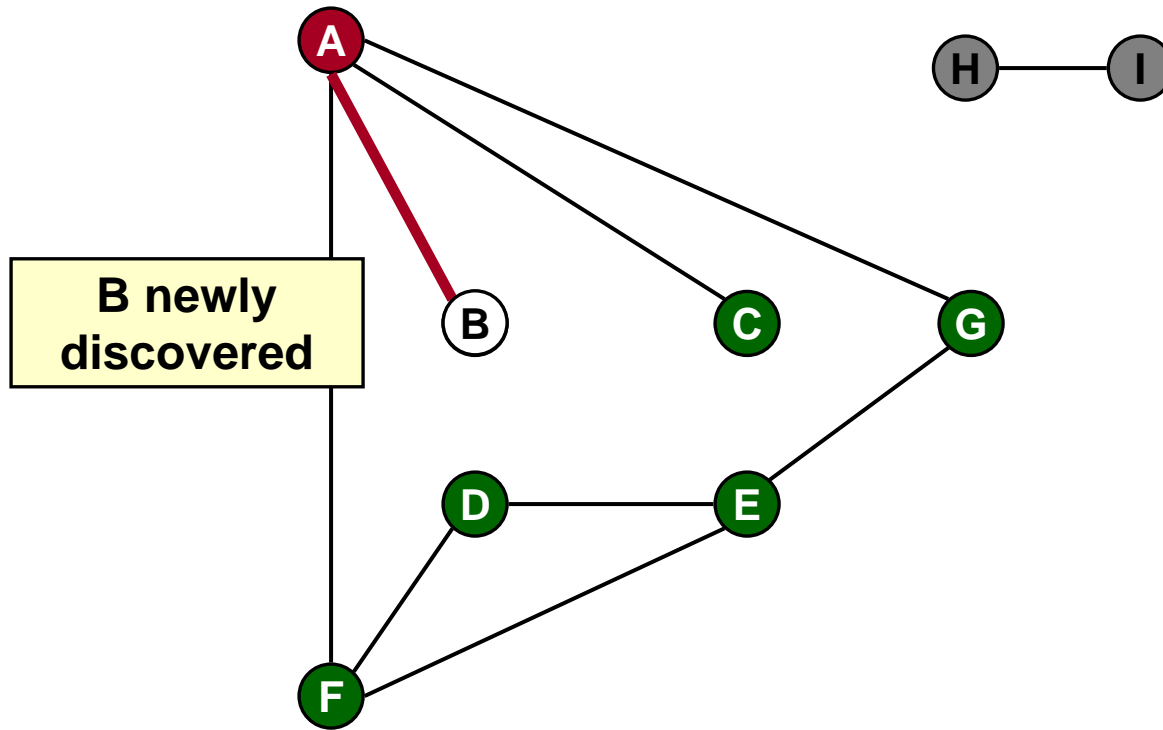


Finished C

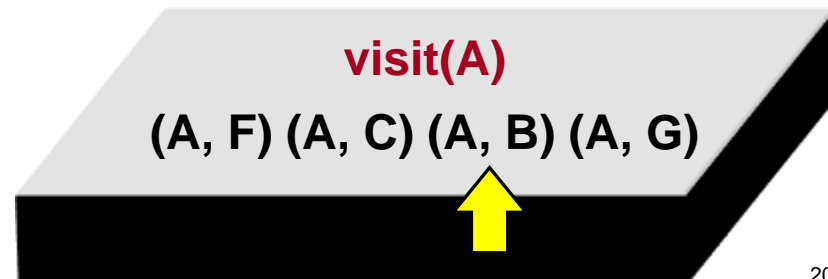


Stack

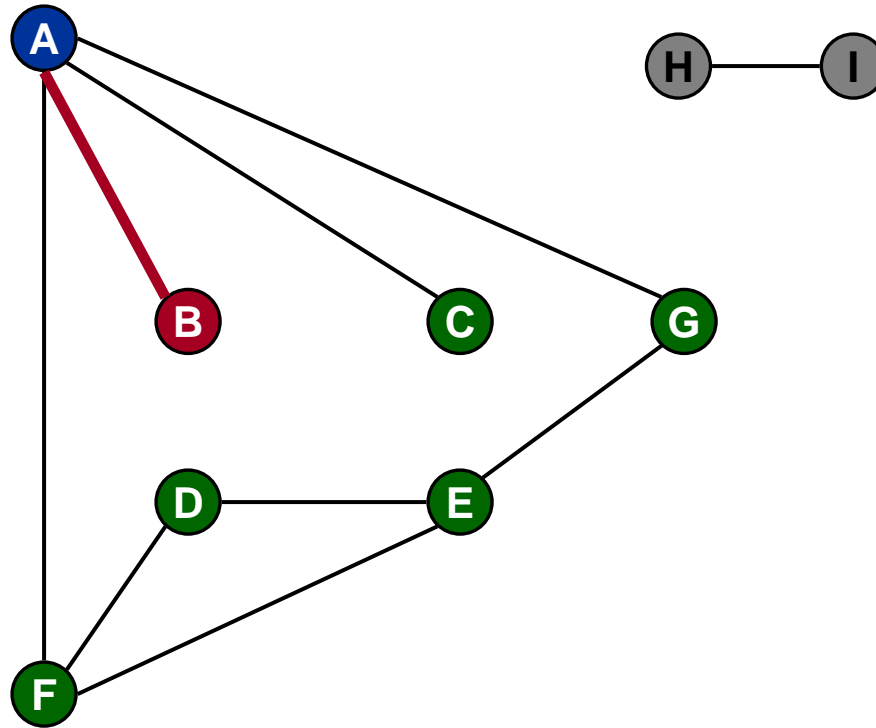
# Undirected Depth First Search



Stack



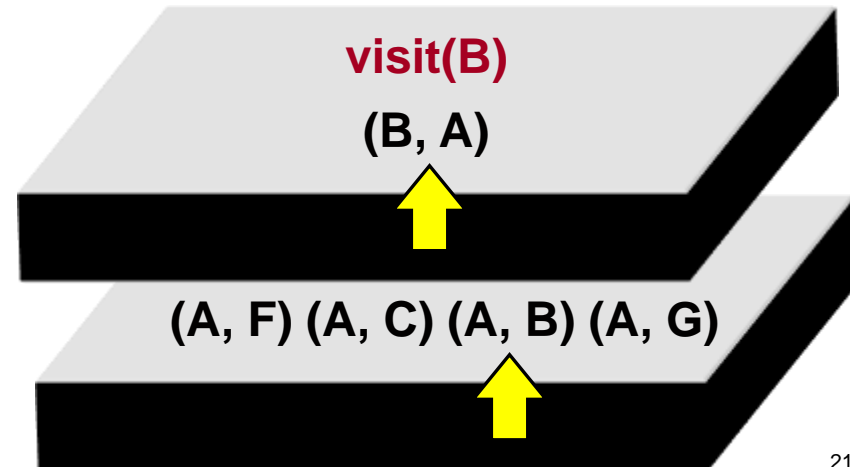
# Undirected Depth First Search



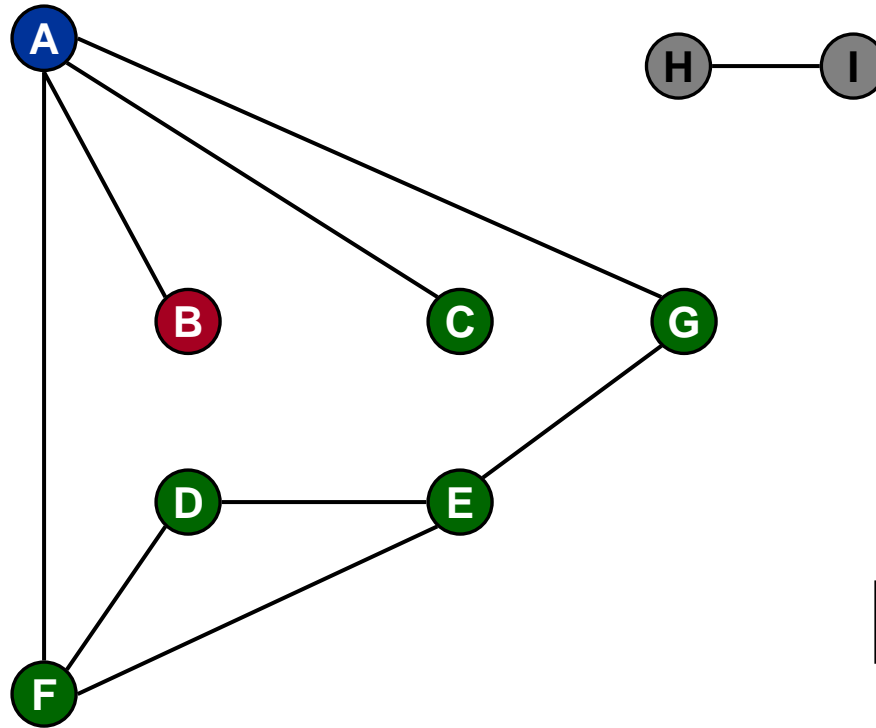
A already Explored



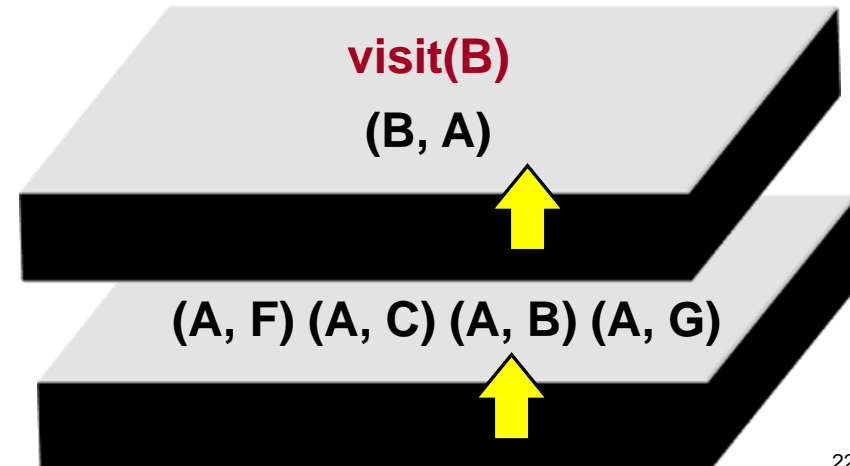
Stack



# Undirected Depth First Search

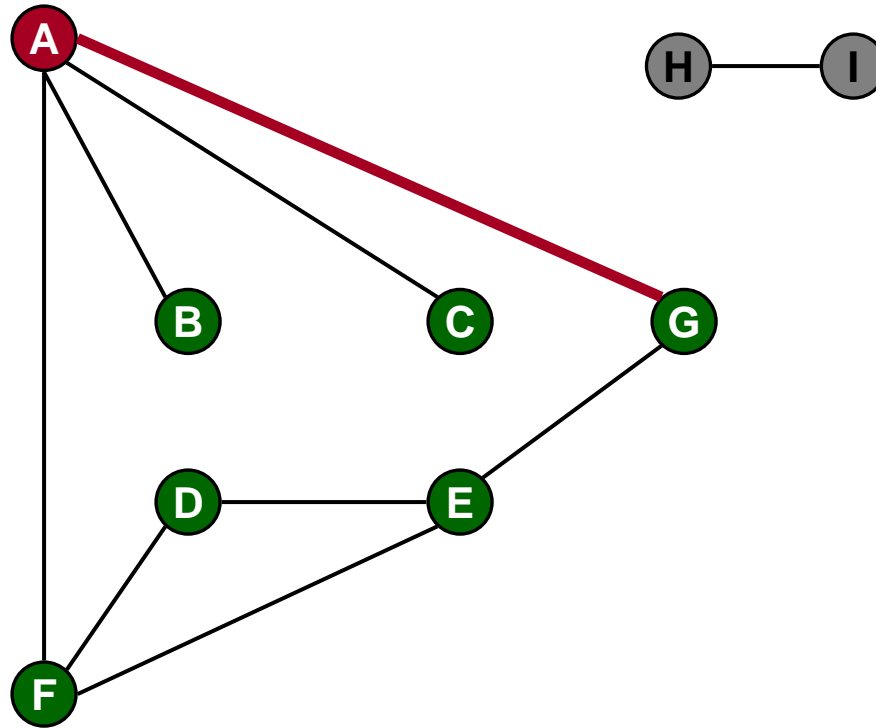


Finished B



Stack

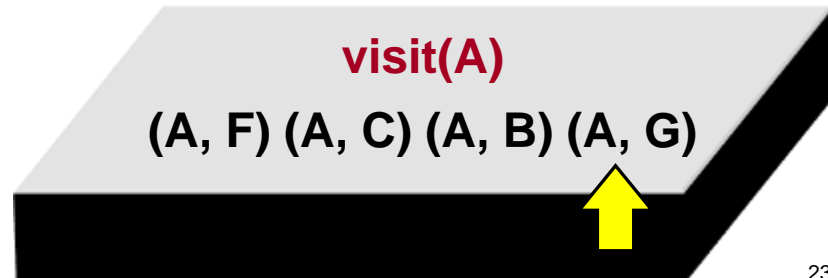
# Undirected Depth First Search



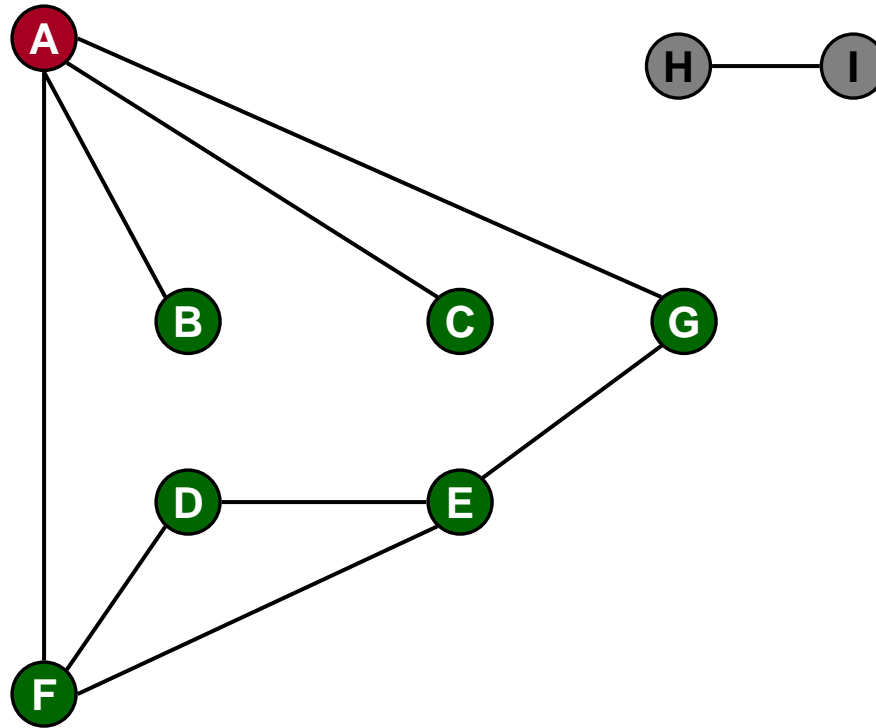
G already finished



Stack

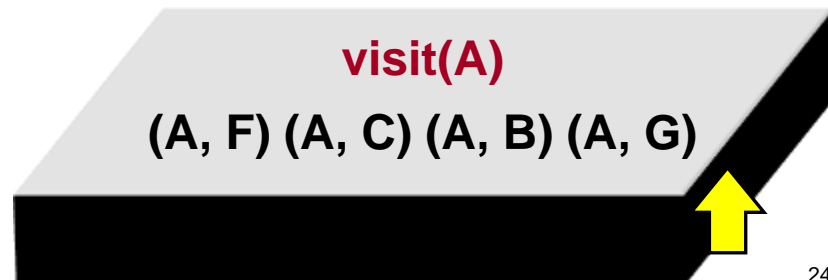


# Undirected Depth First Search



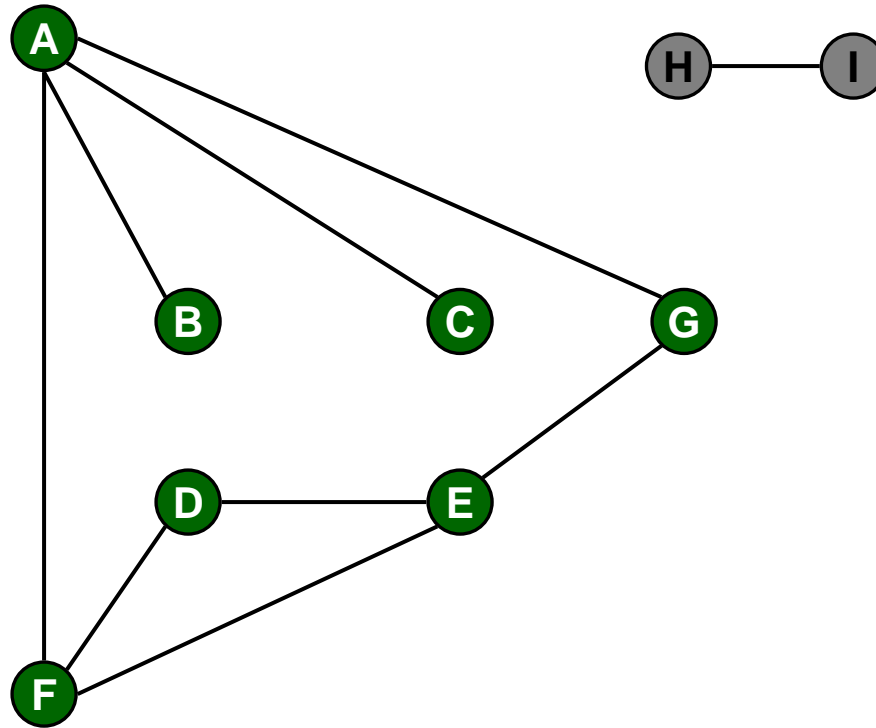
Stack

Finished A



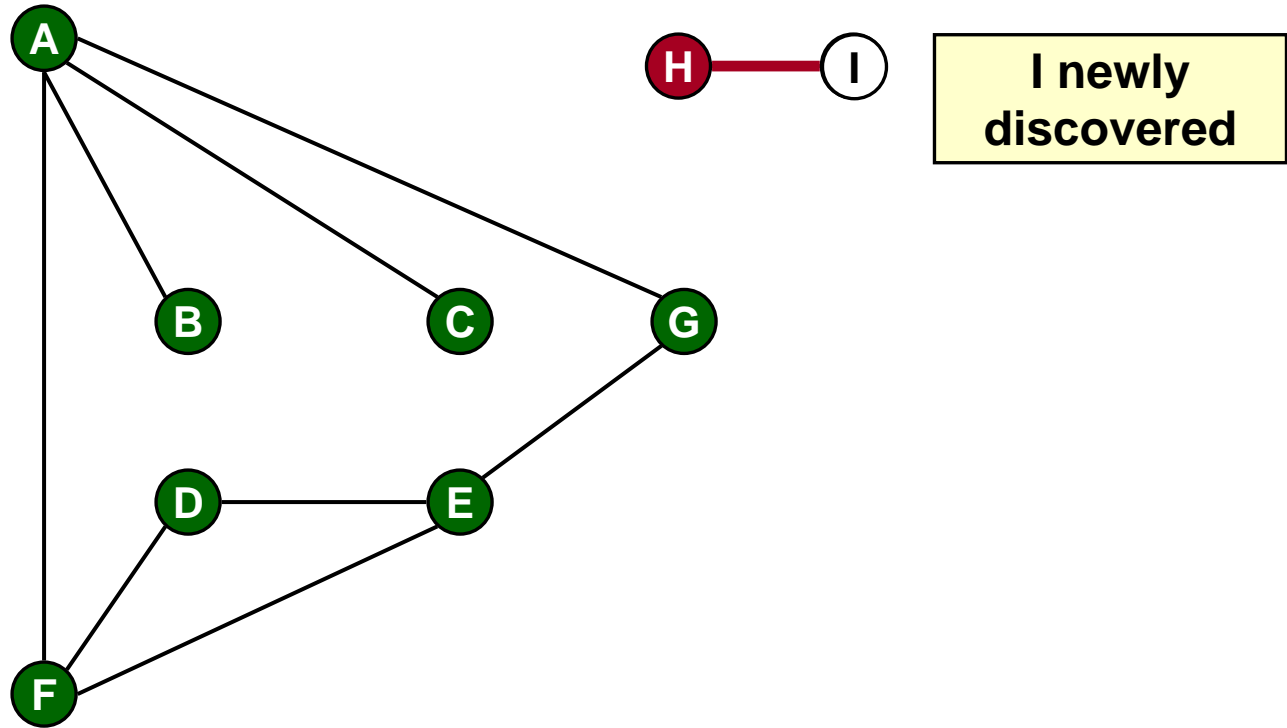


# Undirected Depth First Search

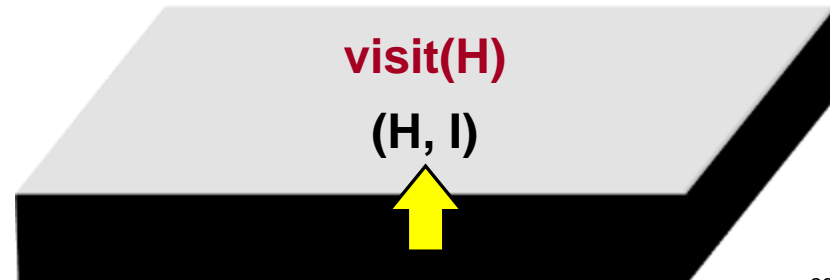


Stack

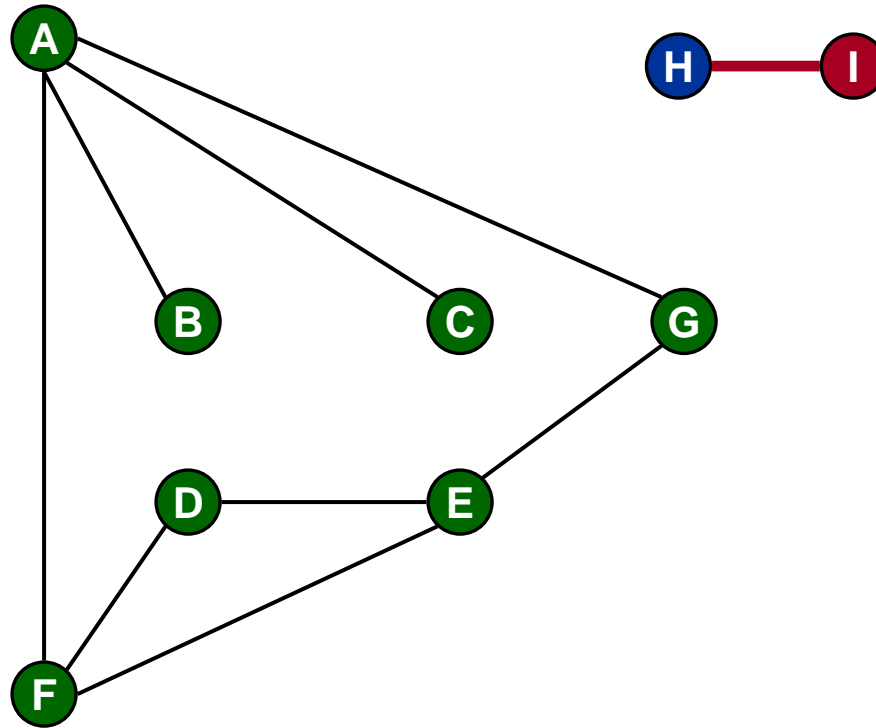
# Undirected Depth First Search



Stack



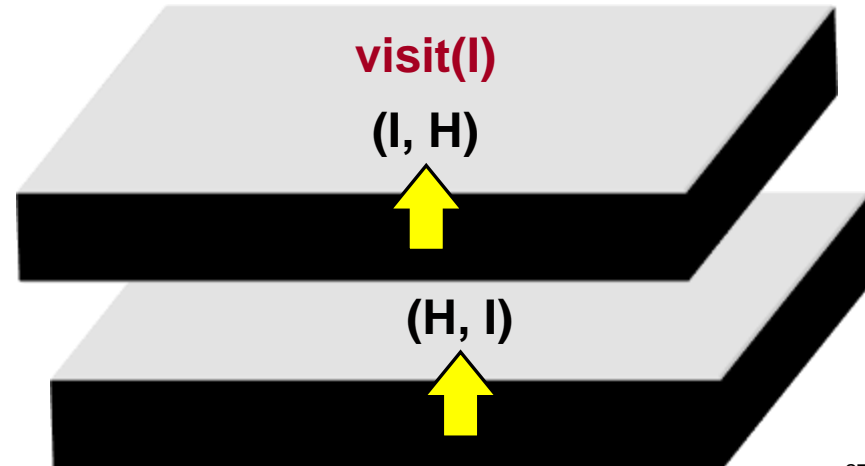
# Undirected Depth First Search



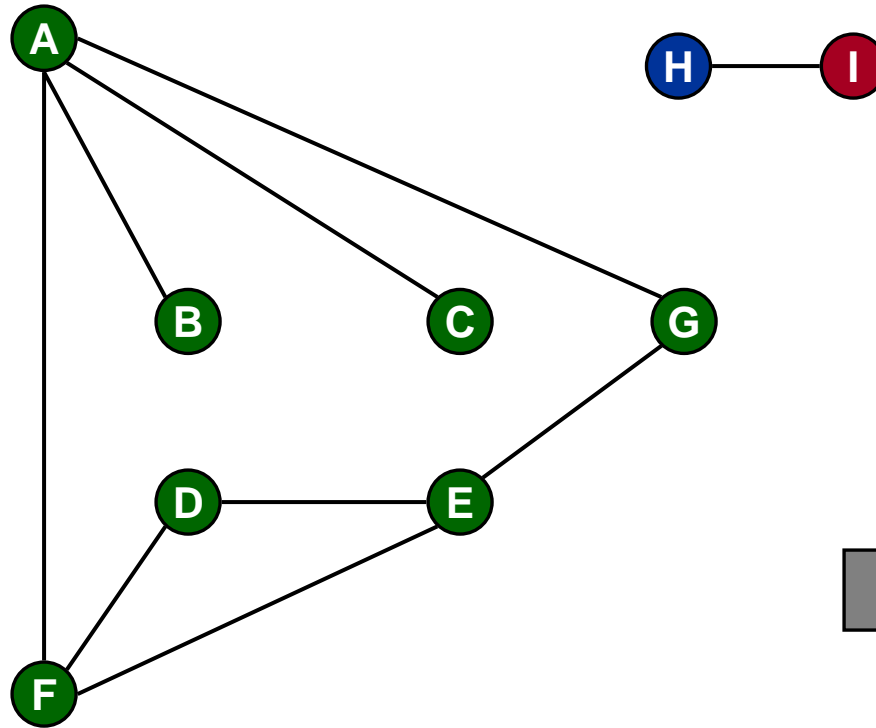
H already Explored



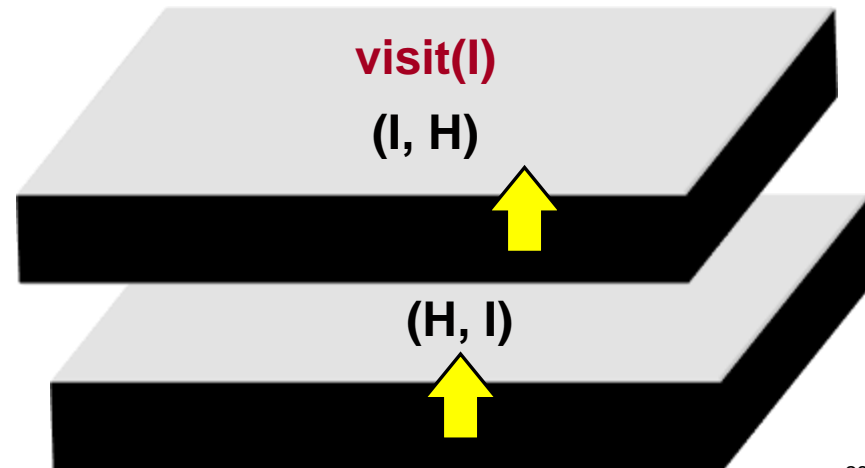
Stack



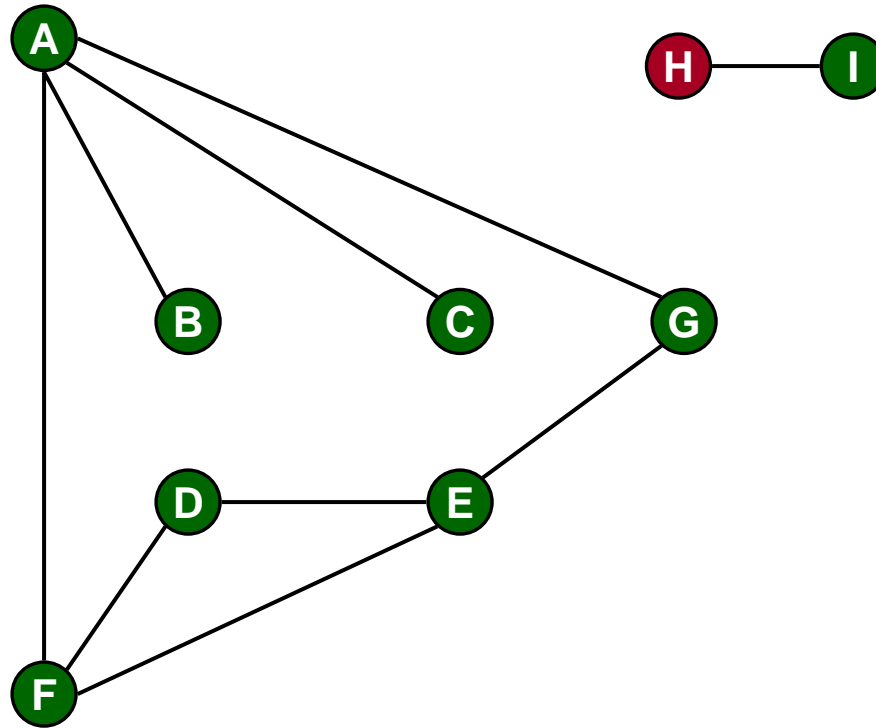
# Undirected Depth First Search



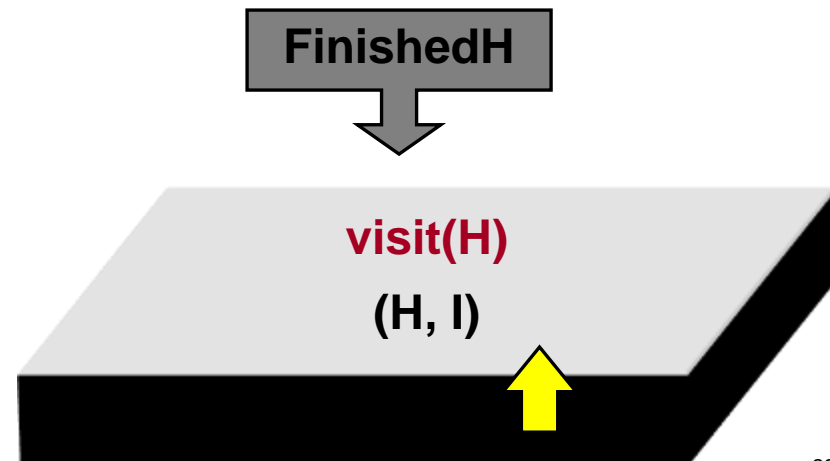
Finished I



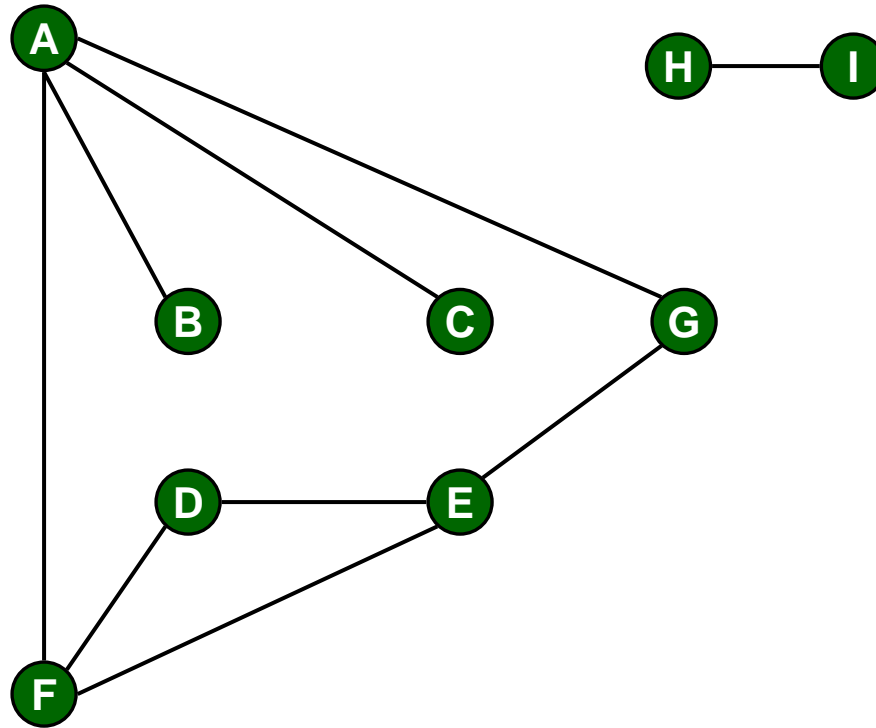
# Undirected Depth First Search



Stack



# Undirected Depth First Search



Stack