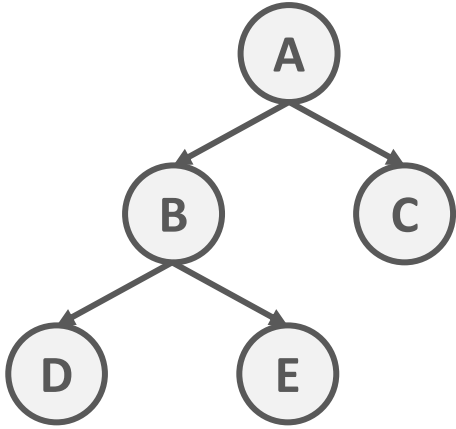


DFS and Stack Frames

(Algorithmic Problems)

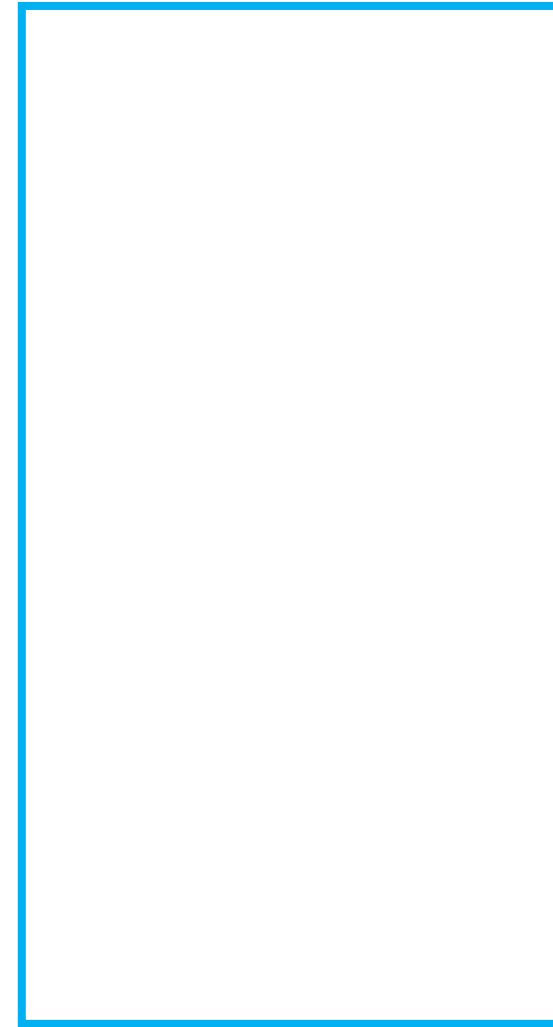
Depth-First Search



dfs(node):

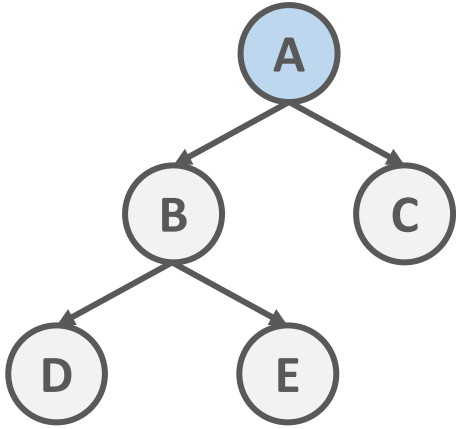
set node to be visited

for n neighbor of node
if n is not already visited
dfs(n)



STACK

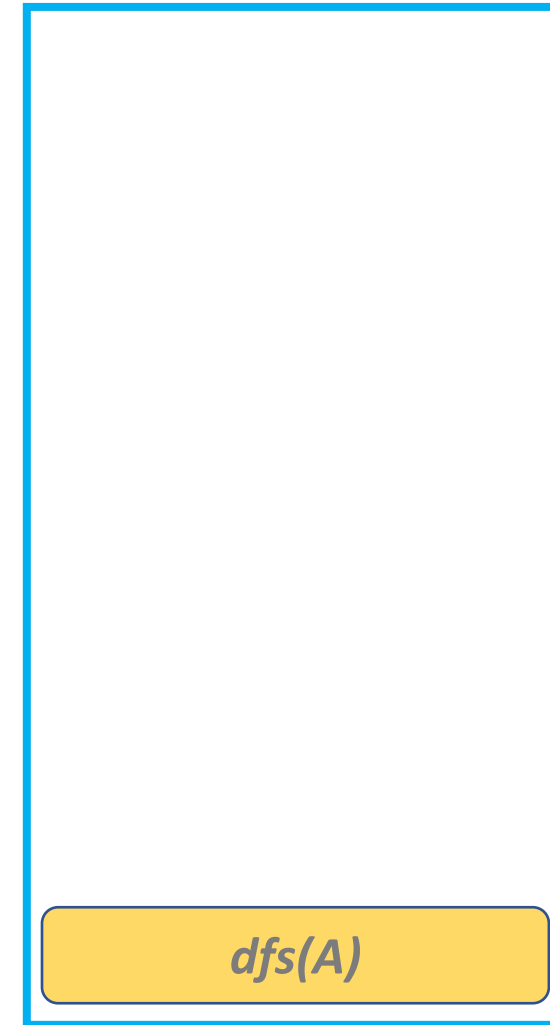
Depth-First Search



dfs(node):

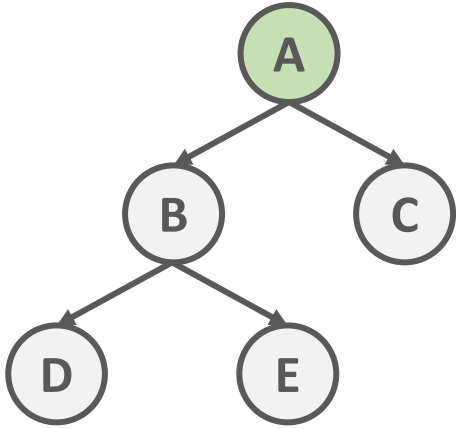
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

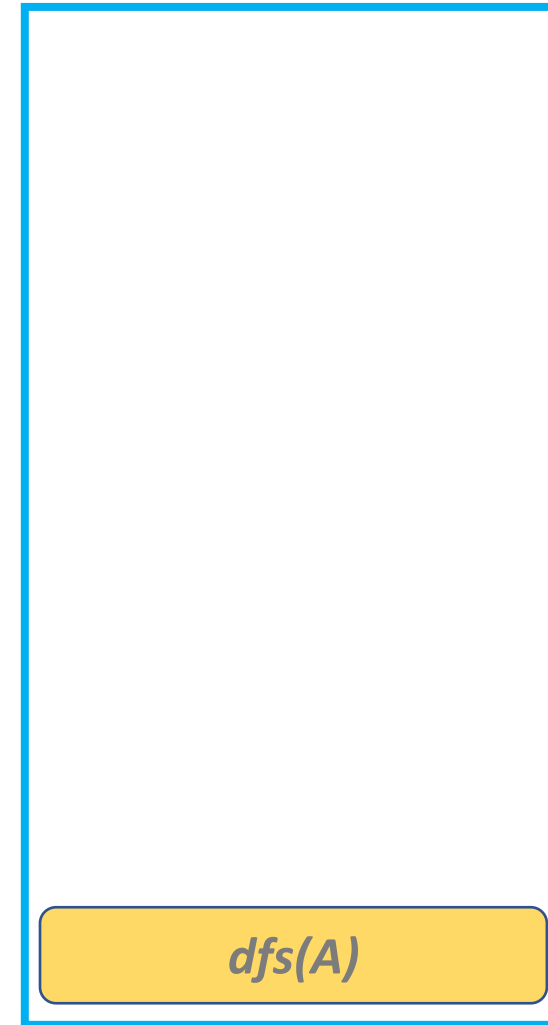
Depth-First Search



dfs(node):

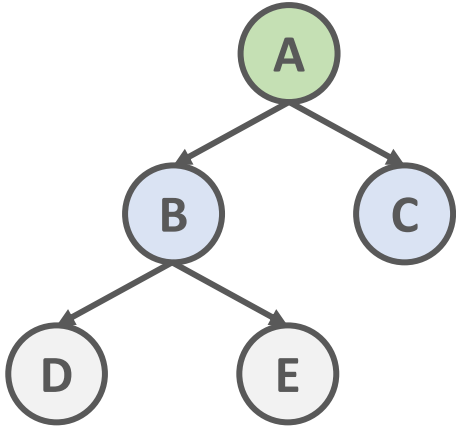
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

Depth-First Search



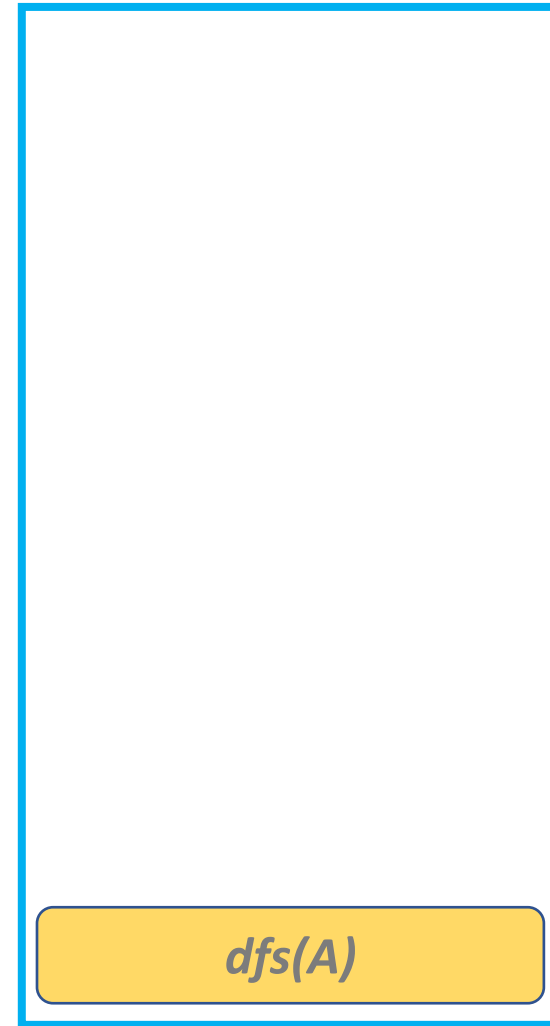
dfs(node):

set node to be visited

for n neighbor of node

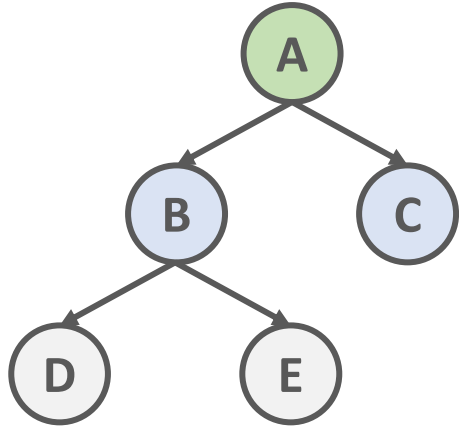
if n is not already visited

dfs(n)



STACK

Depth-First Search



dfs(node):

set node to be visited

for n neighbor of node

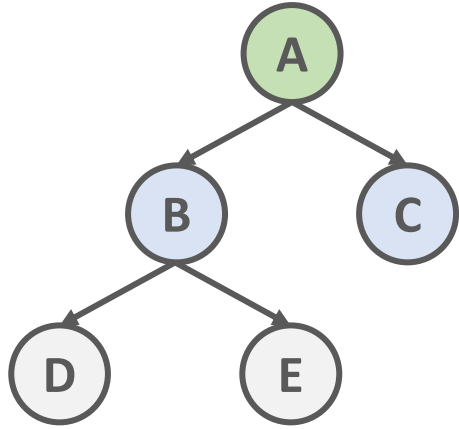
if n is not already visited

dfs(n)



STACK

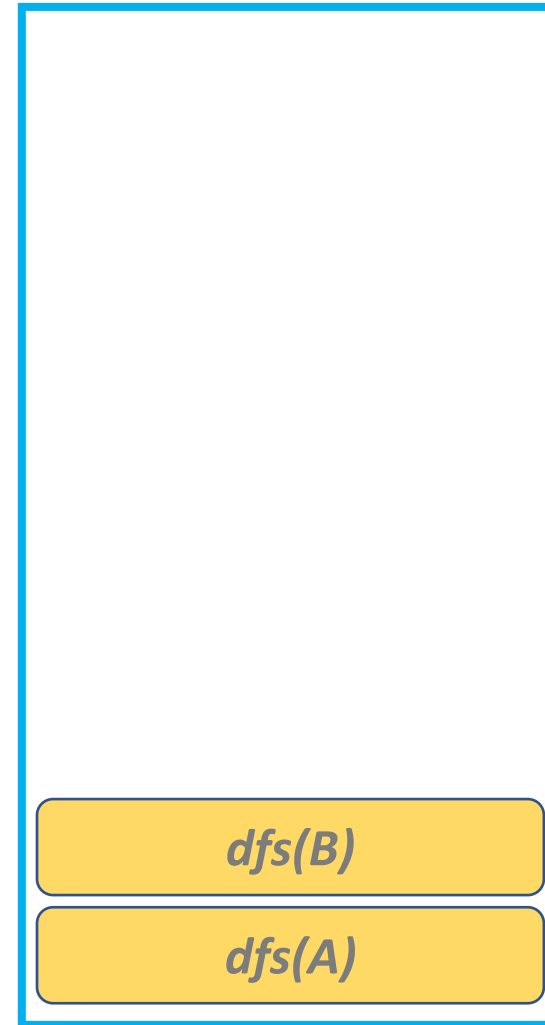
Depth-First Search



dfs(node):

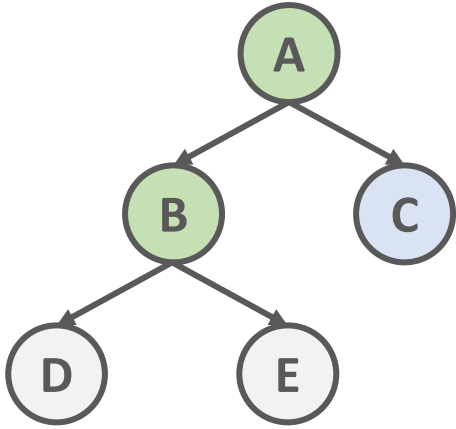
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

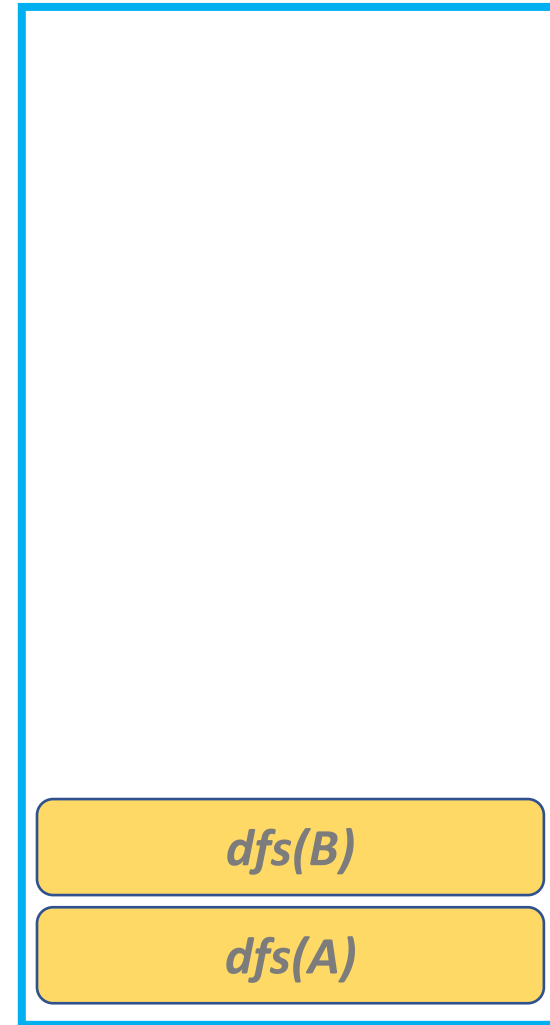
Depth-First Search



dfs(node):

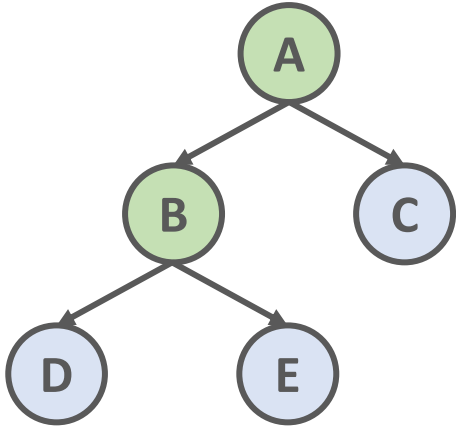
set node to be visited

for n neighbor of node
if n is not already visited
dfs(n)



STACK

Depth-First Search



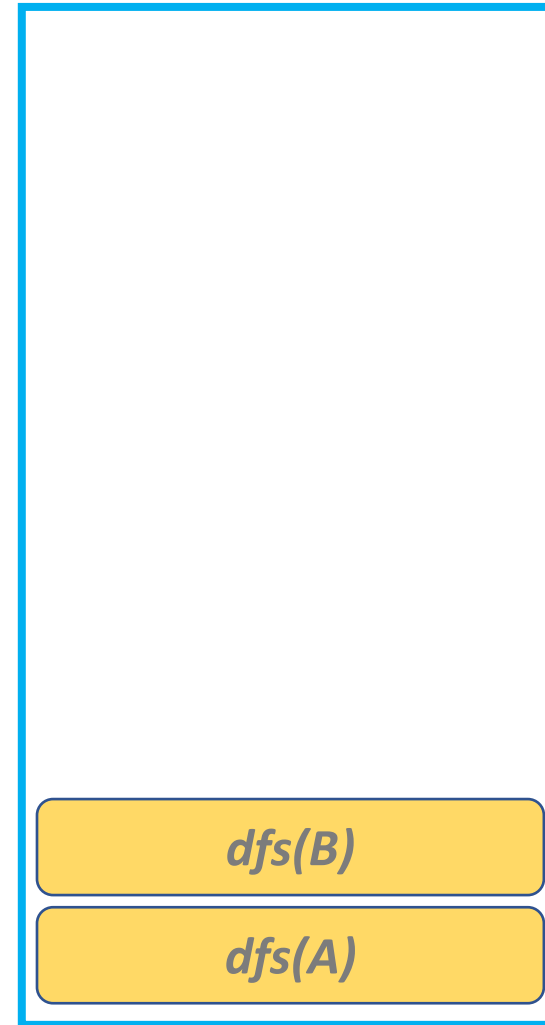
dfs(node):

set node to be visited

for n neighbor of node

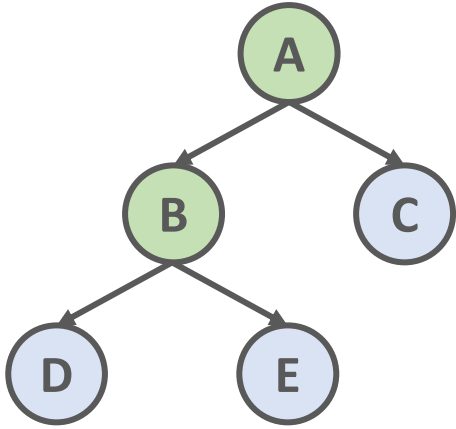
if n is not already visited

dfs(n)



STACK

Depth-First Search



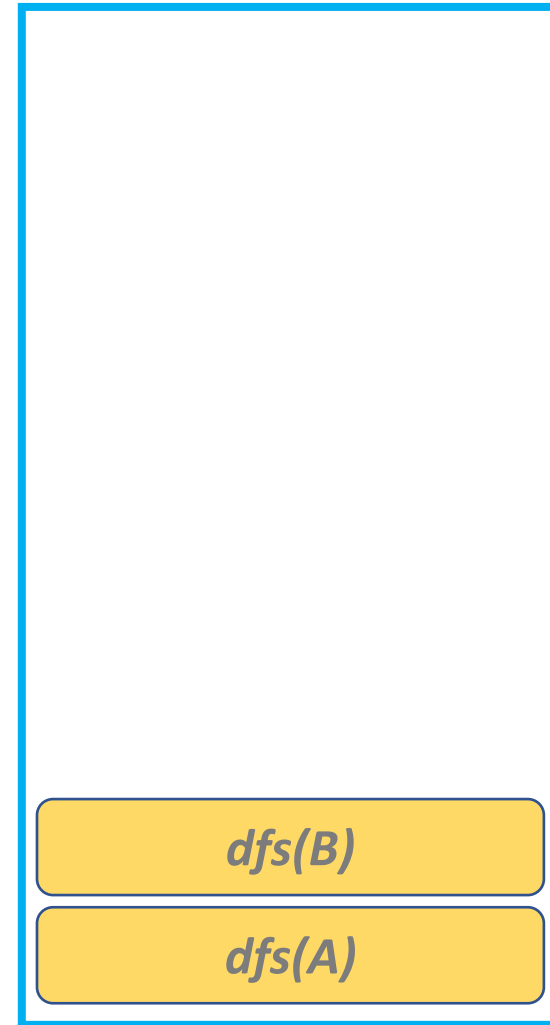
dfs(node):

set node to be visited

for n neighbor of node

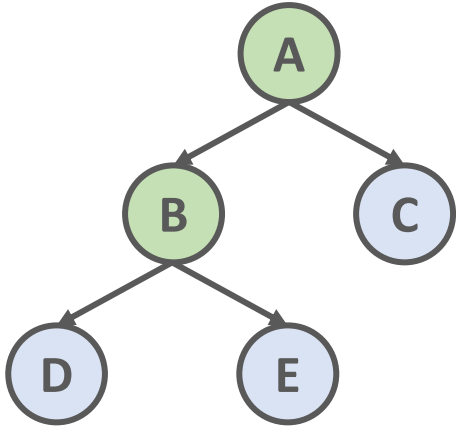
if n is not already visited

dfs(n)



STACK

Depth-First Search



dfs(node):

set node to be visited

for n neighbor of node

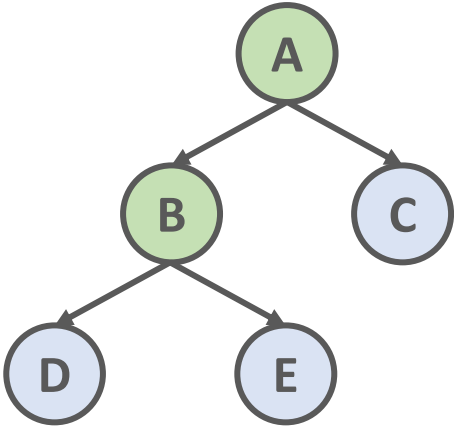
if n is not already visited

dfs(n)



STACK

Depth-First Search



dfs(node):

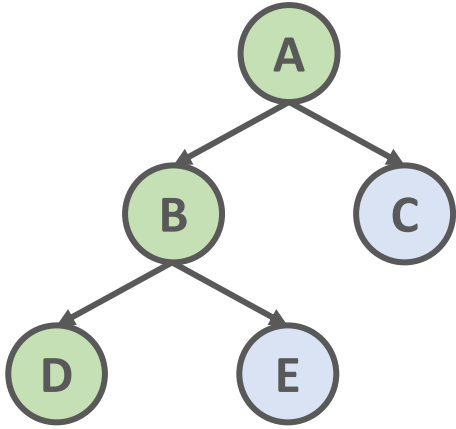
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

Depth-First Search



dfs(node):

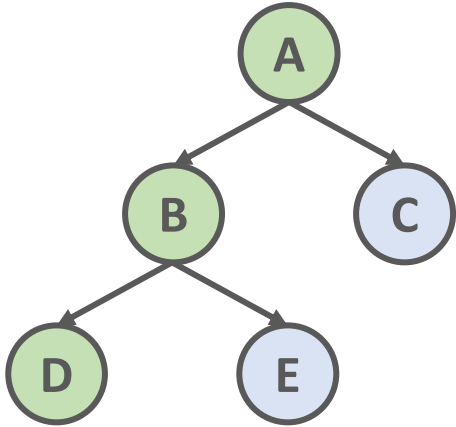
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

Depth-First Search



dfs(node):

set node to be visited

for n neighbor of node

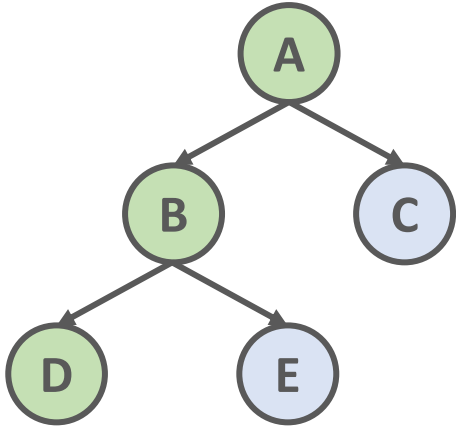
if n is not already visited

dfs(n)



STACK

Depth-First Search



dfs(node):

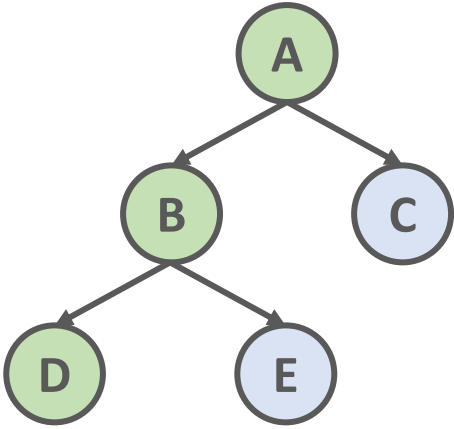
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

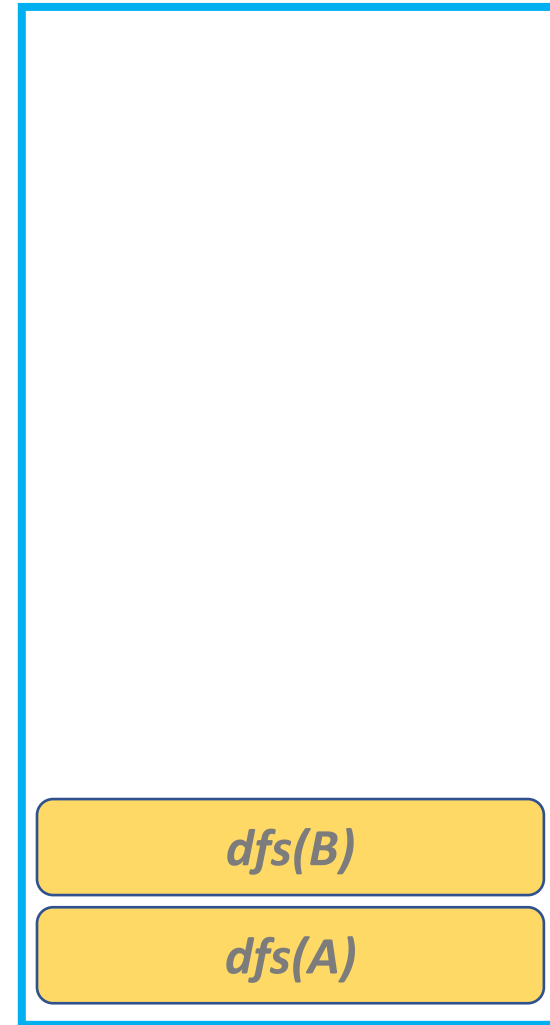
Depth-First Search



dfs(node):

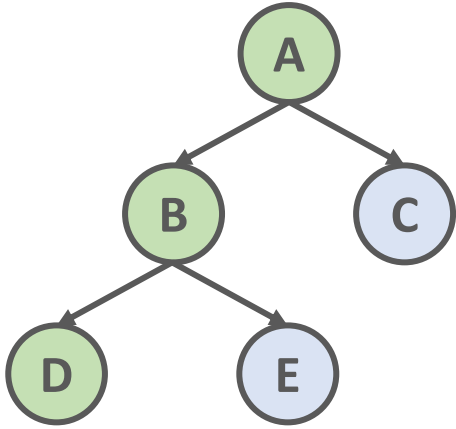
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

Depth-First Search



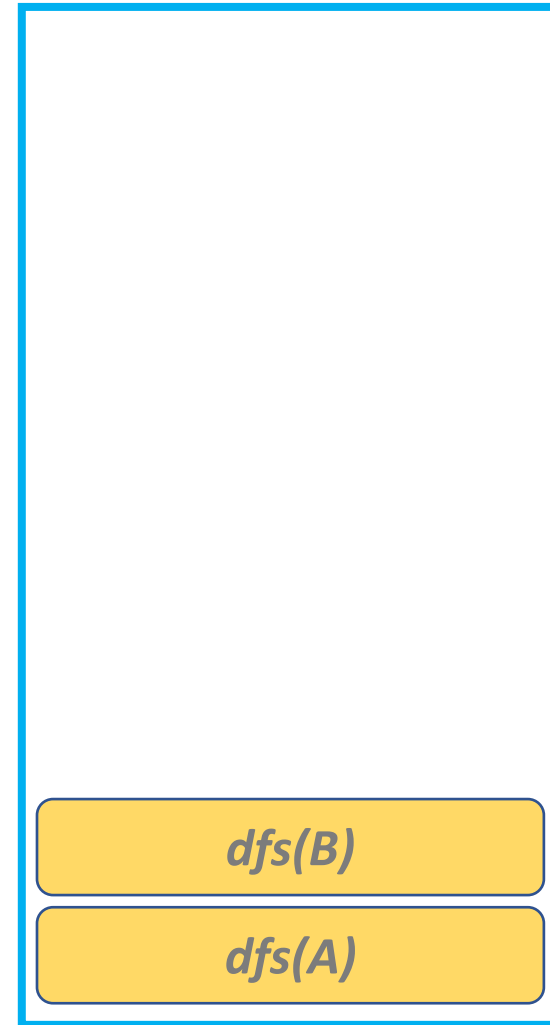
dfs(node):

set node to be visited

for n neighbor of node

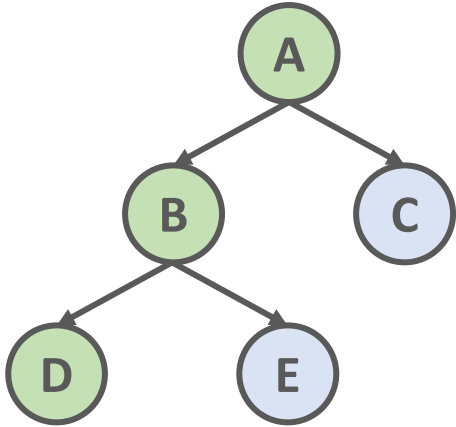
if n is not already visited

dfs(n)



STACK

Depth-First Search



dfs(node):

set node to be visited

for n neighbor of node

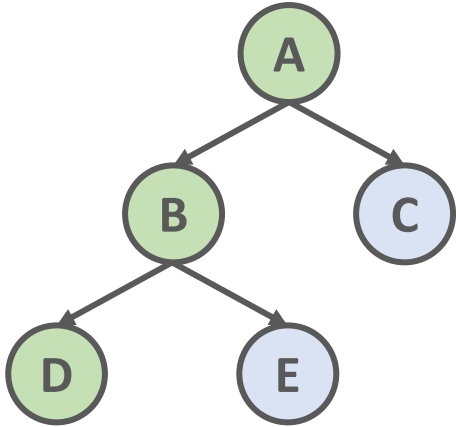
if n is not already visited

dfs(n)



STACK

Depth-First Search



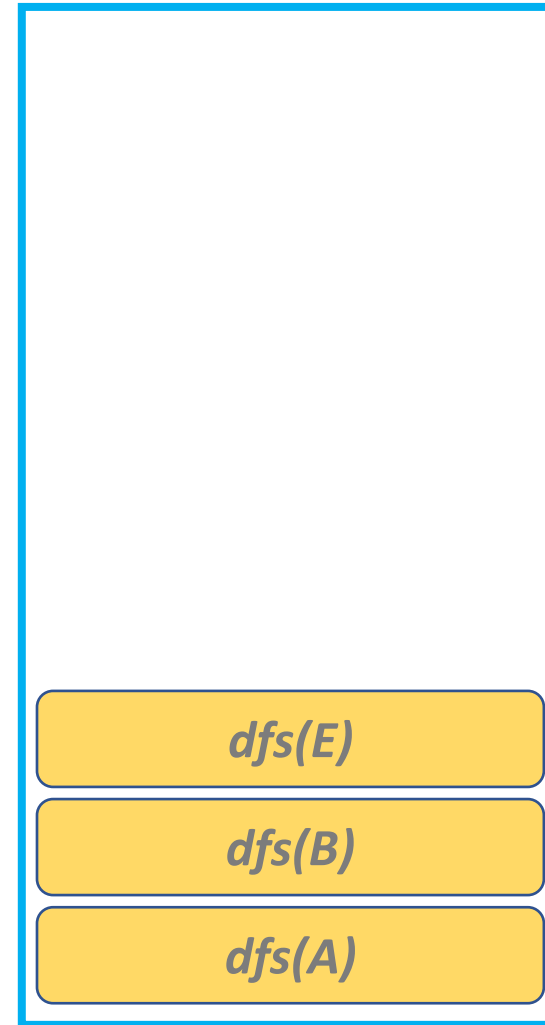
dfs(node):

set node to be visited

for n neighbor of node

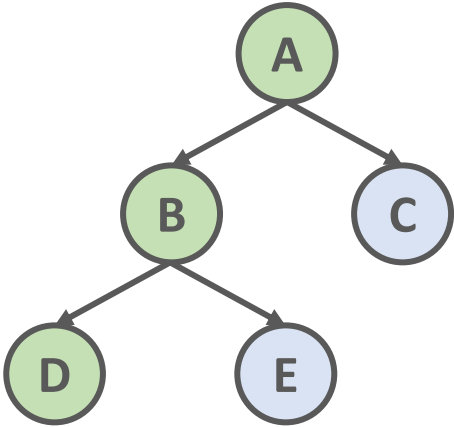
if n is not already visited

dfs(n)



STACK

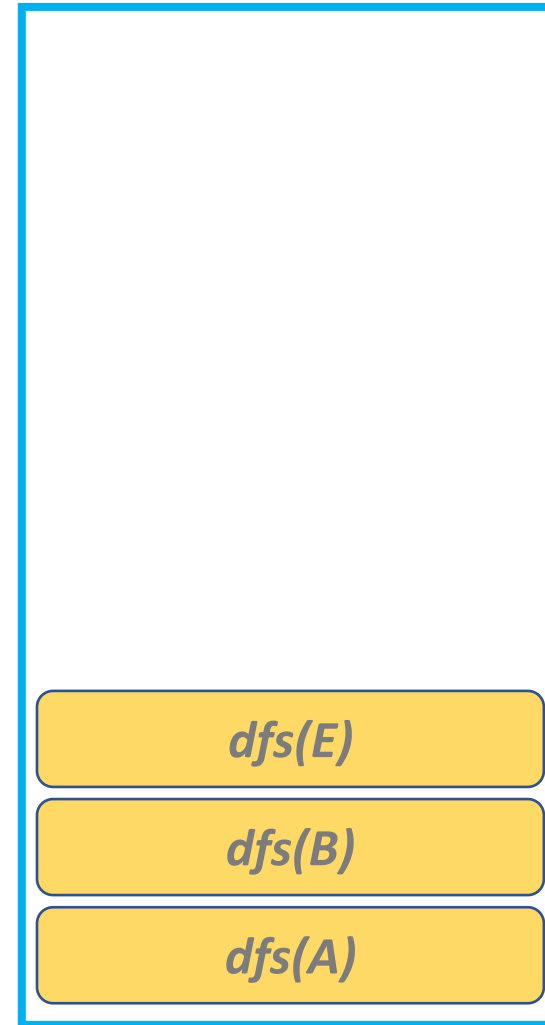
Depth-First Search



dfs(node):

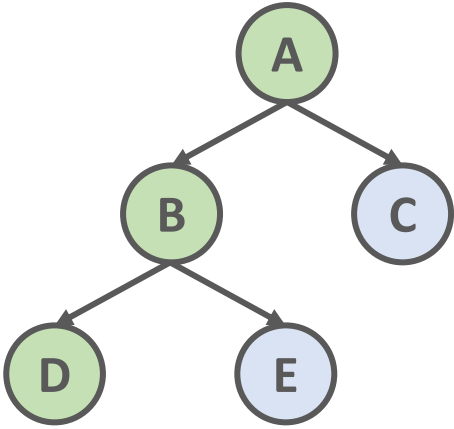
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

Depth-First Search



dfs(node):

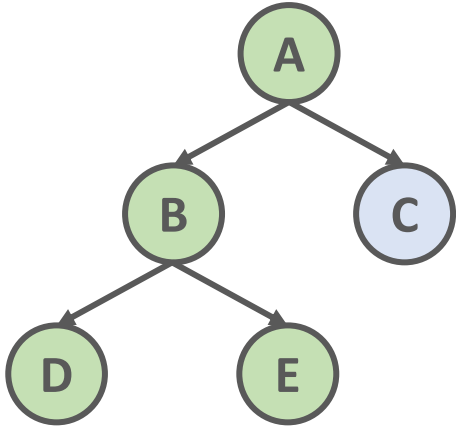
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

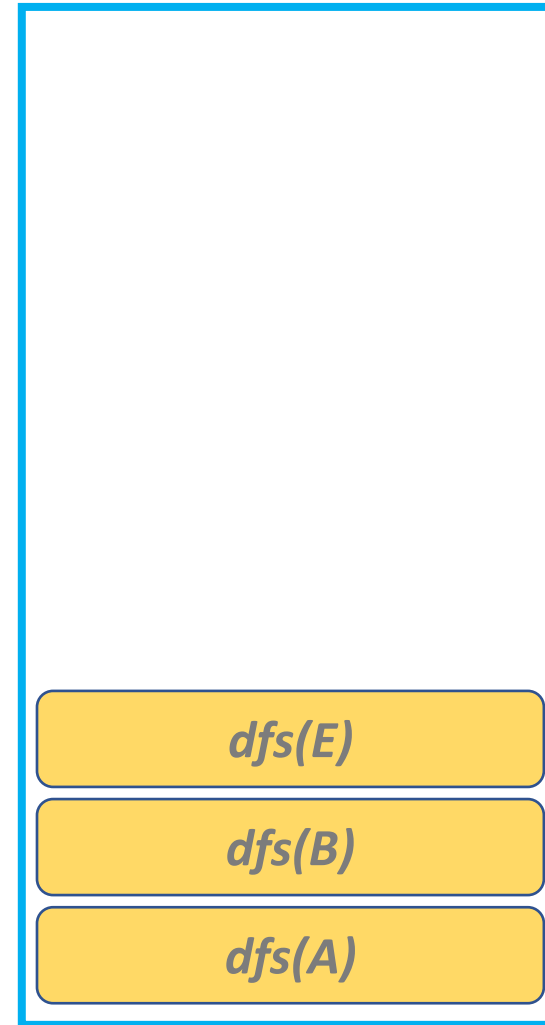
Depth-First Search



dfs(node):

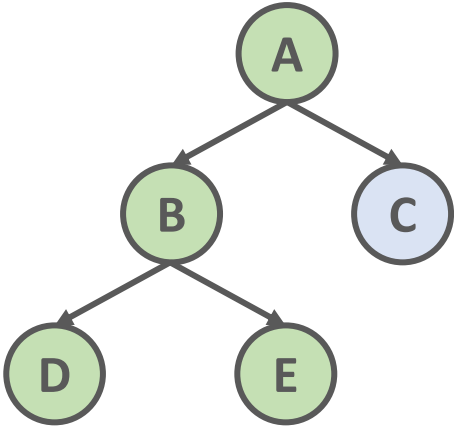
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

Depth-First Search



dfs(node):

set node to be visited

for n neighbor of node

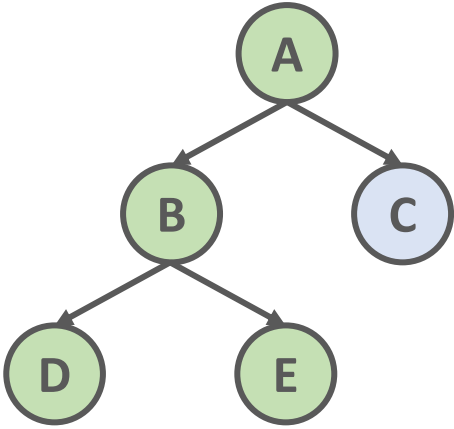
if n is not already visited

dfs(n)



STACK

Depth-First Search



dfs(node):

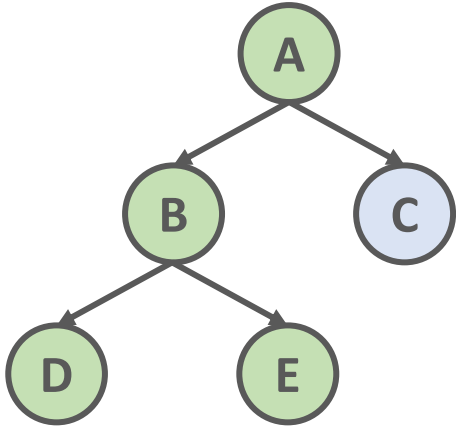
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

Depth-First Search



dfs(node):

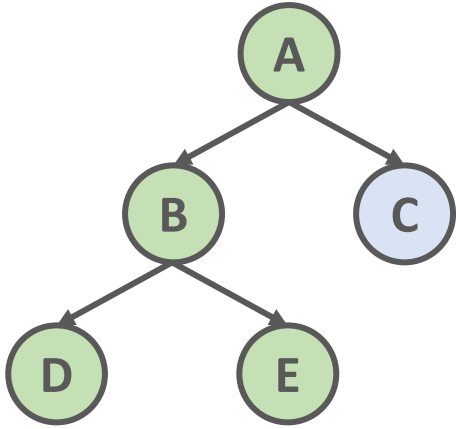
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

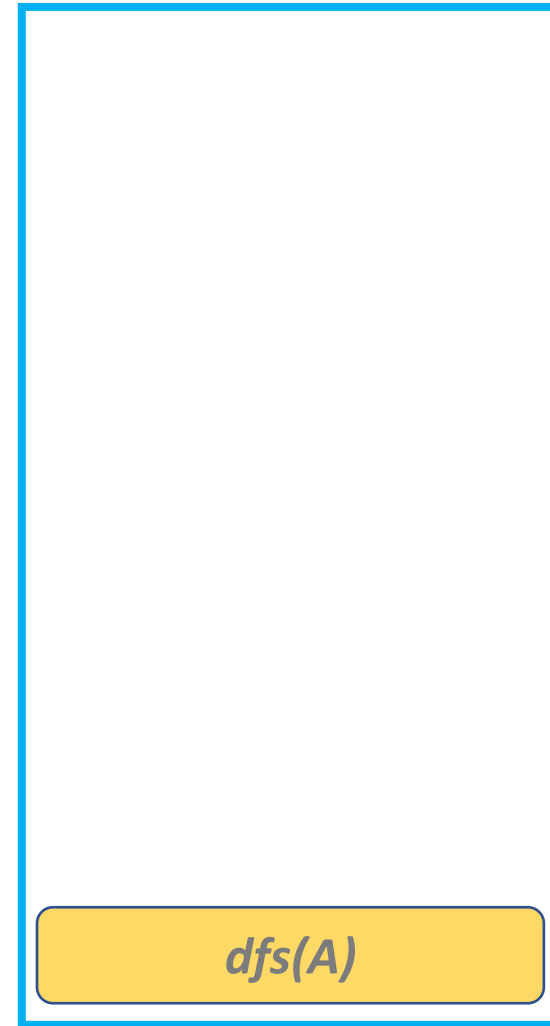
Depth-First Search



dfs(node):

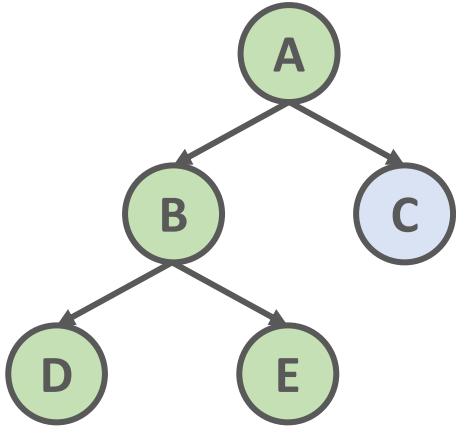
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

Depth-First Search



dfs(node):

set node to be visited

for n neighbor of node

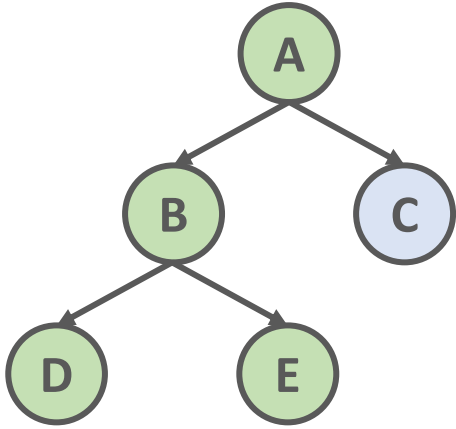
if n is not already visited

dfs(n)



STACK

Depth-First Search



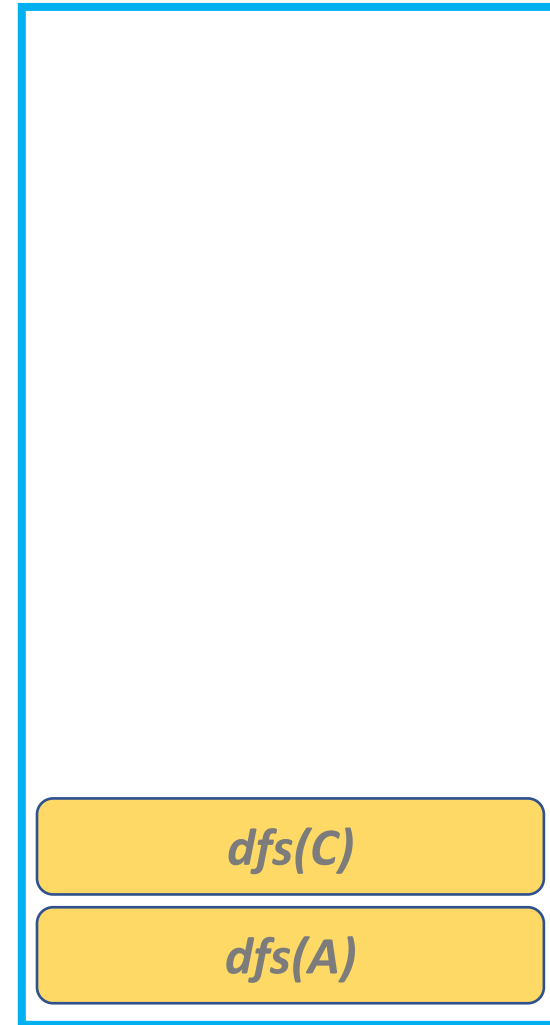
dfs(node):

set node to be visited

for n neighbor of node

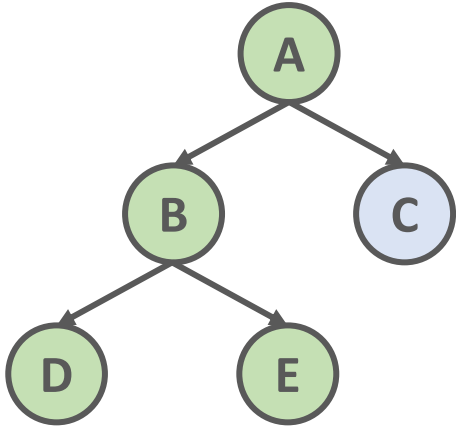
if n is not already visited

dfs(n)



STACK

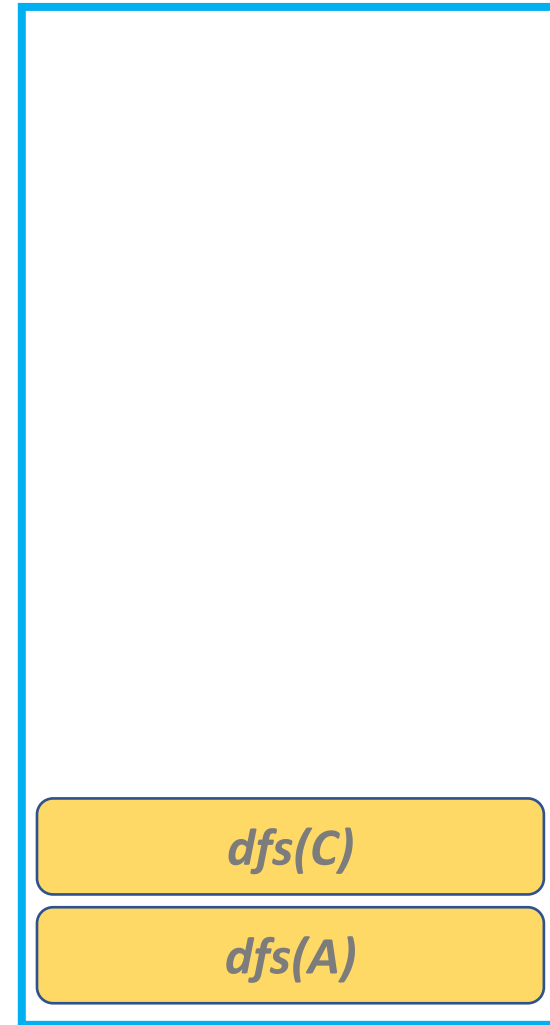
Depth-First Search



dfs(node):

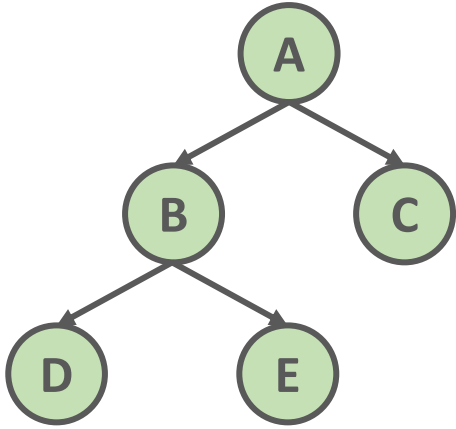
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

Depth-First Search



dfs(node):

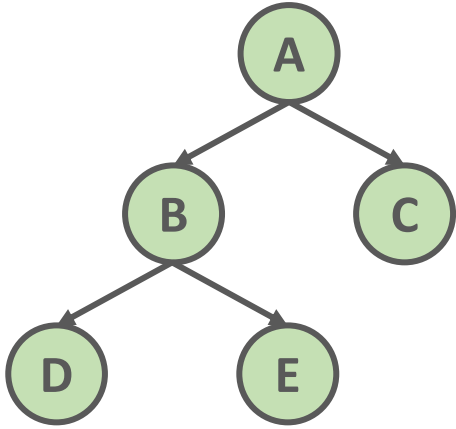
set node to be visited

for n neighbor of node
if n is not already visited
dfs(n)



STACK

Depth-First Search



dfs(node):

set node to be visited

for n neighbor of node

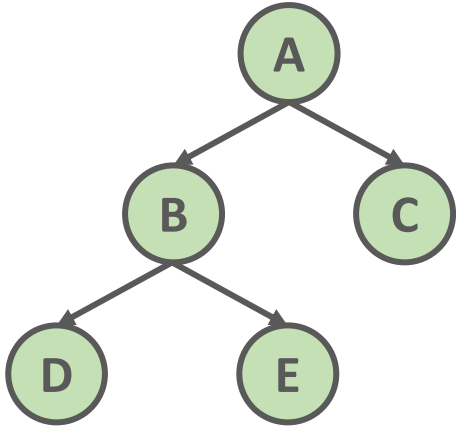
if n is not already visited

dfs(n)



STACK

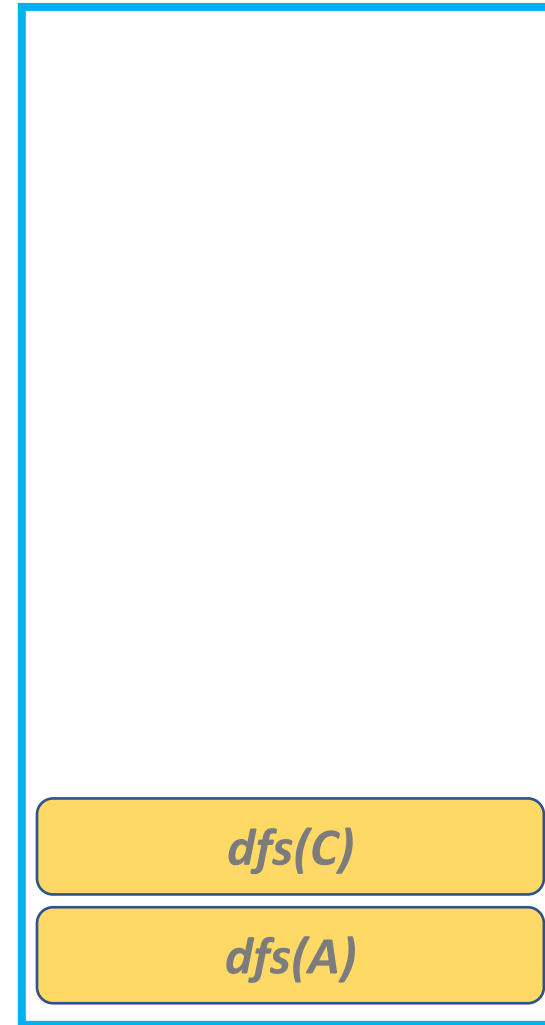
Depth-First Search



dfs(node):

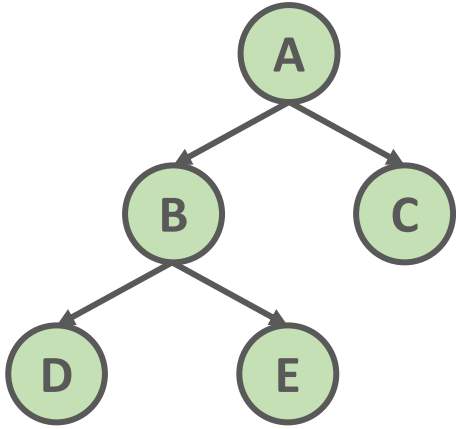
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

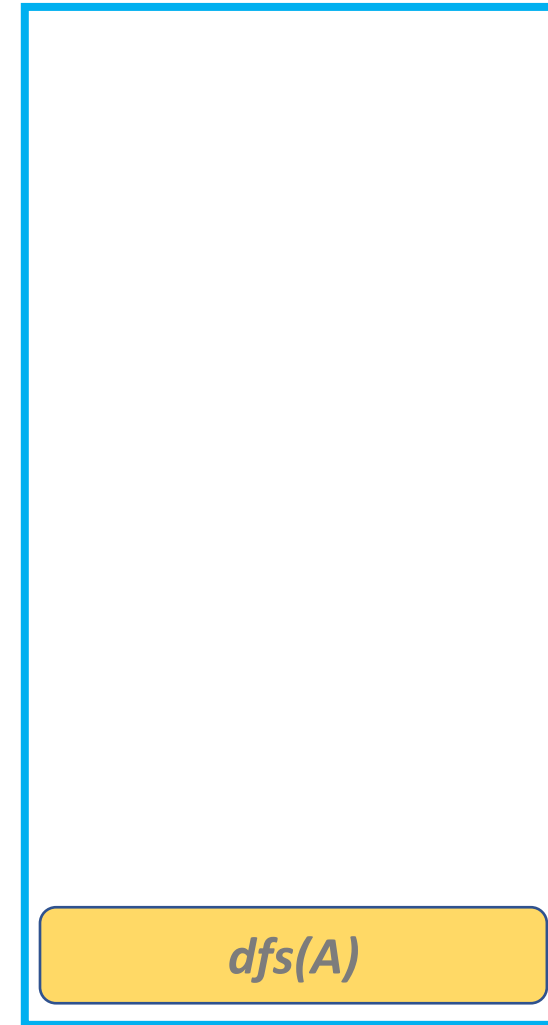
Depth-First Search



dfs(node):

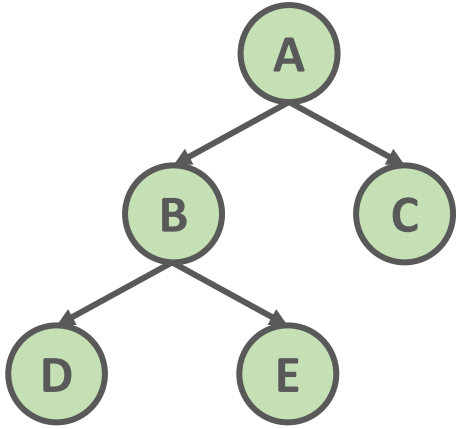
set node to be visited

*for n neighbor of node
if n is not already visited
dfs(n)*



STACK

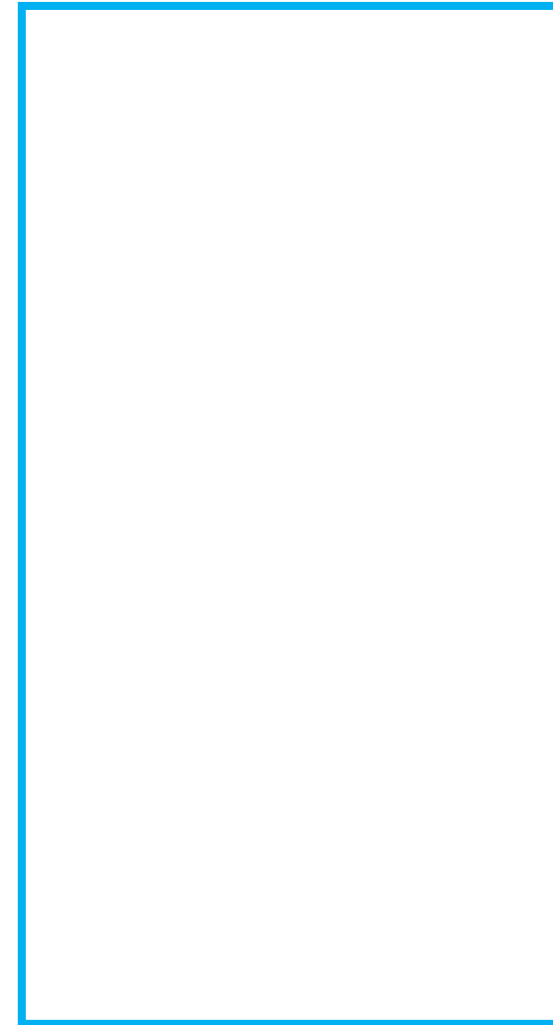
Depth-First Search



dfs(node):

set node to be visited

for n neighbor of node
if n is not already visited
dfs(n)



STACK