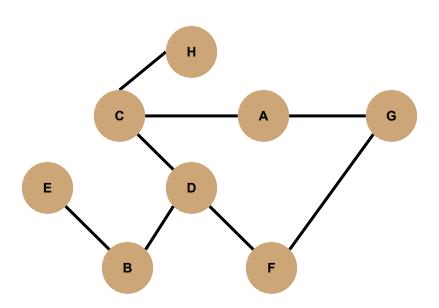
Starting from A, write the order in which vertices are visited using **DFS**.

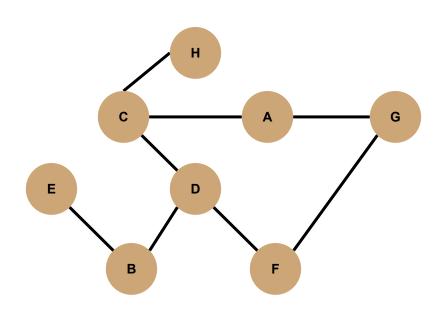


Order of DFS:

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	F
В	F
С	F
D	F
E	F
F	F
G	F
н	F

Starting from A, write the order in which vertices are visited using **DFS**.

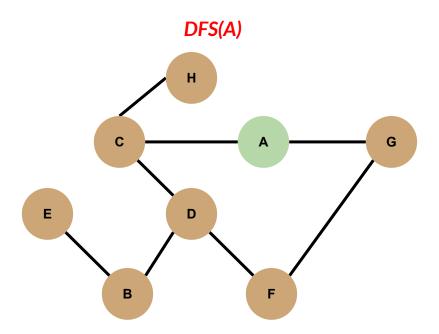


Order of DFS:

- Mark v
- 2. For every unmarked neighbor n:Call DFS(n)

Vertex	marked[]
Α	F
В	F
С	F
D	F
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

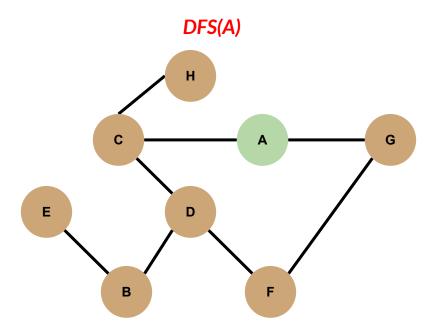


Order of DFS: A

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	F
В	F
С	F
D	F
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

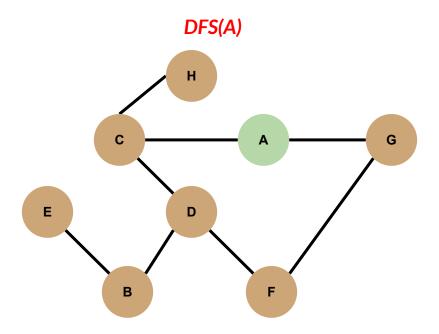


Order of DFS: A

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	т
В	F
С	F
D	F
E	F
F	F
G	F
н	F

Starting from A, write the order in which vertices are visited using **DFS**.

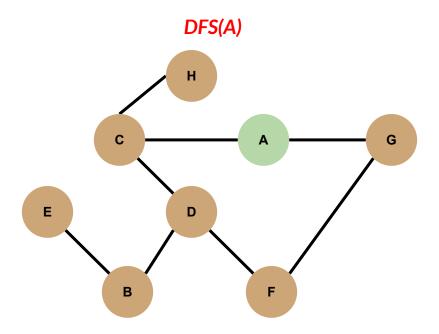


Order of DFS: A

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	F
С	F
D	F
Ε	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

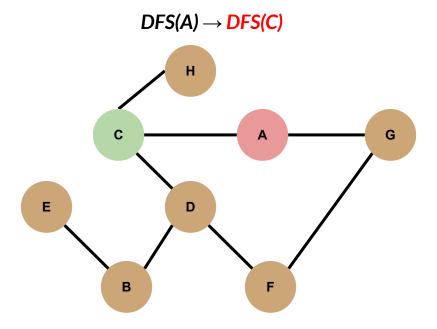


Order of DFS: A

- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	F
С	F
D	F
E	F
F	F
G	F
н	F

Starting from A, write the order in which vertices are visited using **DFS**.

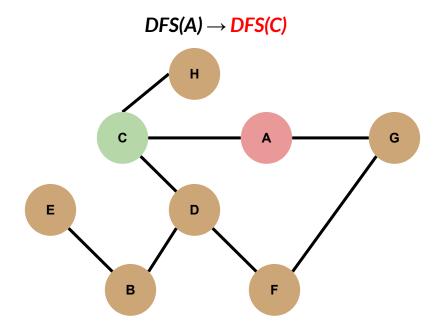


Order of DFS: A, C

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	F
С	F
D	F
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

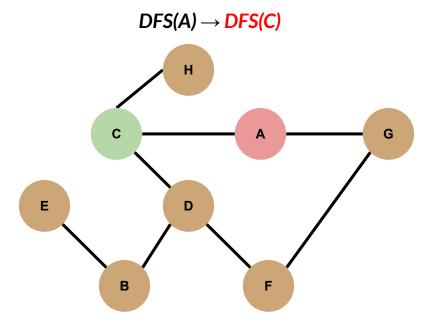


Order of DFS: A, C

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	F
С	т
D	F
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

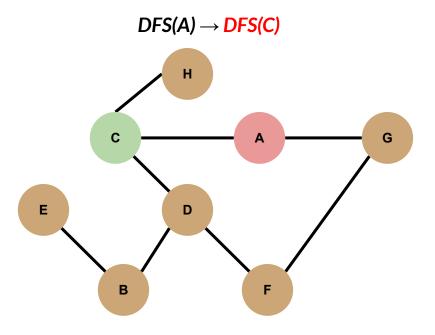


Order of DFS: A, C

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	F
С	Т
D	F
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

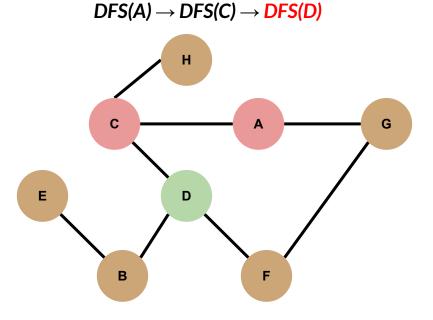


Order of DFS: A, C

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	F
С	Т
D	F
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

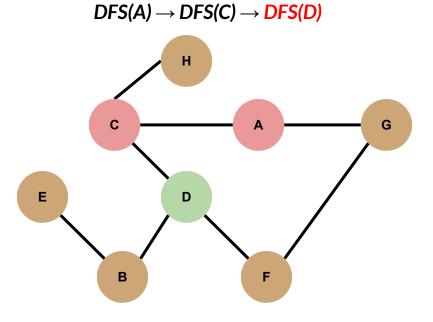


Order of DFS: A, C, D

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	F
С	Т
D	F
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

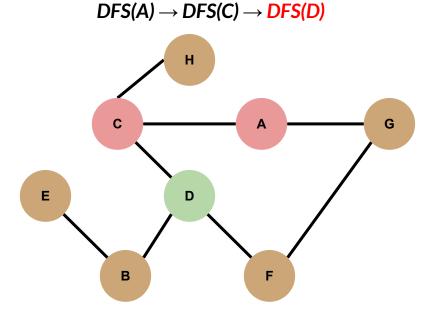


Order of DFS: A, C, D

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

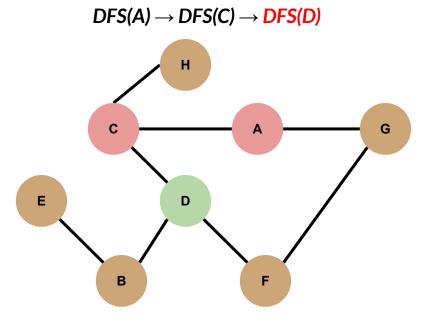


Order of DFS: A, C, D

- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.



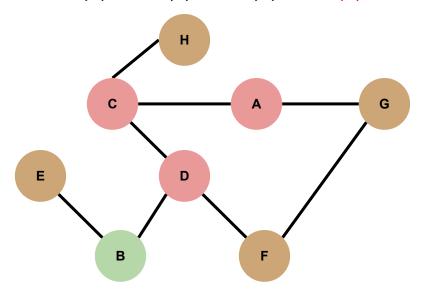
Order of DFS: A, C, D

- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(B)$$



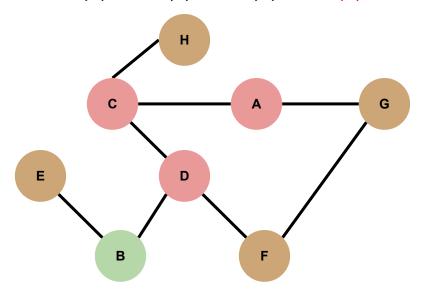
Order of DFS: A, C, D, B

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(B)$$



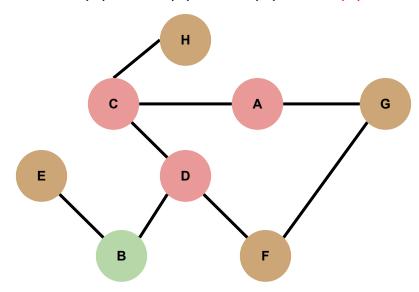
Order of DFS: A, C, D, B

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	т
С	Т
D	Т
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(B)$$



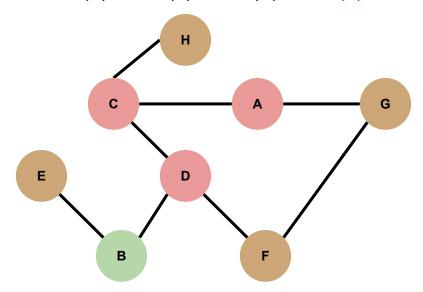
Order of DFS: A, C, D, B

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(B)$$

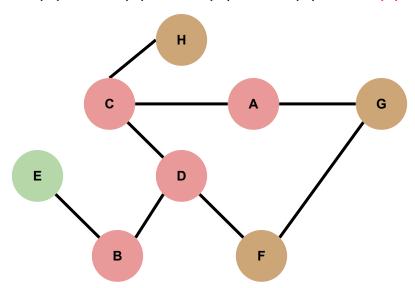


- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(B) \rightarrow DFS(E)$$



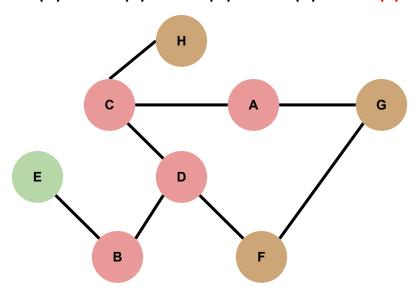
Order of DFS: A, C, D, B, E

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(B) \rightarrow DFS(E)$$



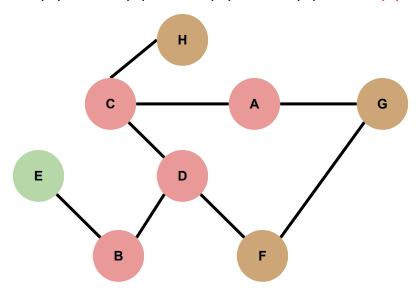
Order of DFS: A, C, D, B, E

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(B) \rightarrow DFS(E)$$

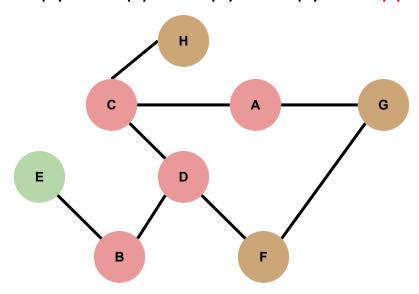


- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(B) \rightarrow \frac{DFS(E)}{DFS(E)}$$

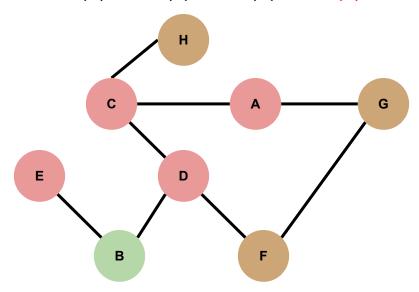


- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(B)$$

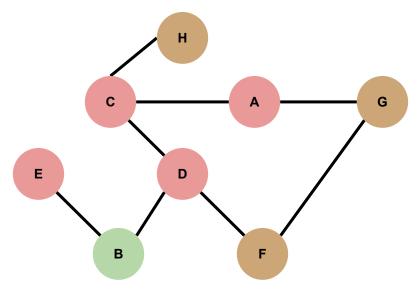


- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

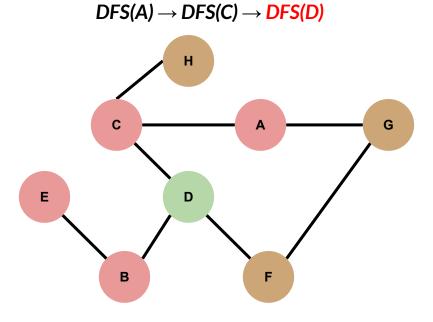
$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow \frac{DFS(B)}{DFS(B)}$$



- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

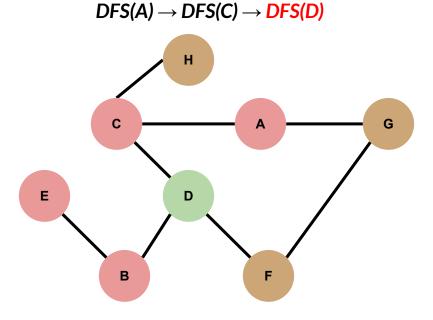


Order of DFS: A, C, D, B, E

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

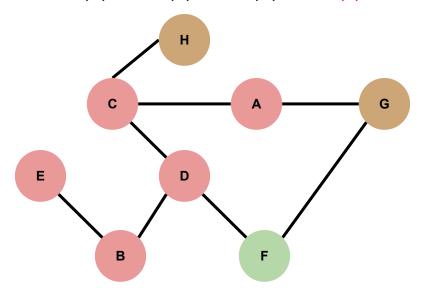


- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(F)$$



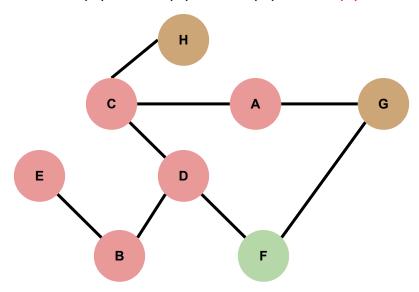
Order of DFS: A, C, D, B, E, F

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(F)$$



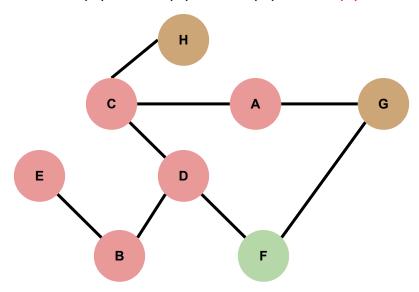
Order of DFS: A, C, D, B, E, F

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	Т
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(F)$$

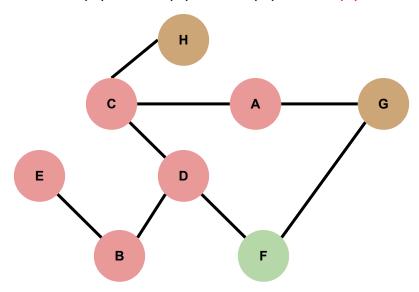


- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	Т
G	F
н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(F)$$

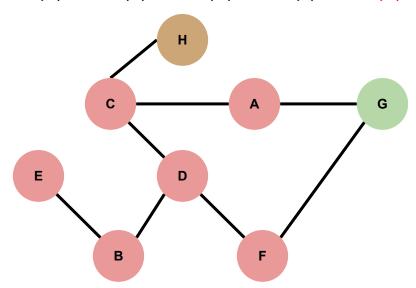


- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	T
E	Т
F	Т
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(F) \rightarrow DFS(G)$$



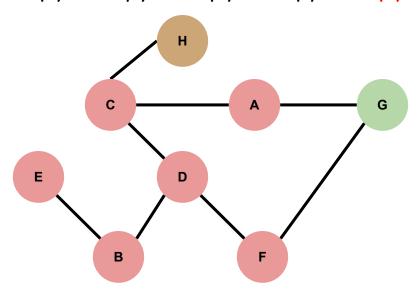
Order of DFS: A, C, D, B, E, F, G

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	T
E	Т
F	T
G	F
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(F) \rightarrow DFS(G)$$



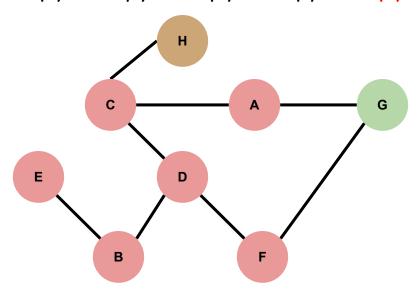
Order of DFS: A, C, D, B, E, F, G

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	Т
G	Т
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(F) \rightarrow DFS(G)$$



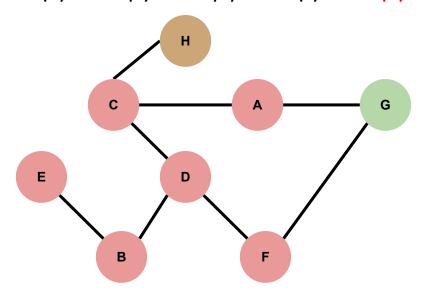
Order of DFS: A, C, D, B, E, F, G

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	Т
G	Т
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(F) \rightarrow \frac{DFS(G)}{DFS(G)}$$



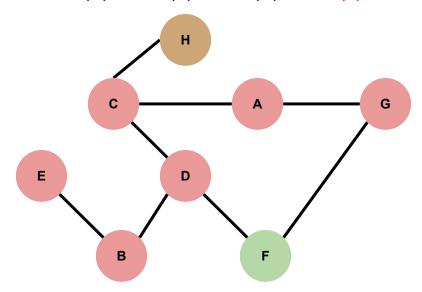
Order of DFS: A, C, D, B, E, F, G

- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	Т
G	Т
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

 $DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow DFS(F)$



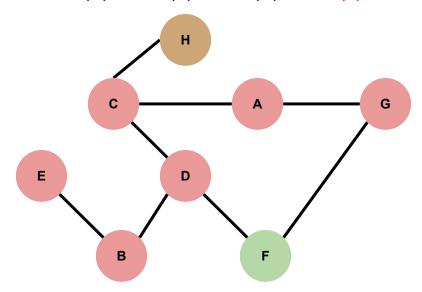
Order of DFS: A, C, D, B, E, F, G

- Mark v
- 2. For every unmarked neighbor n:
 - Set n's edgeTo value to v
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	Т
G	Т
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

$$DFS(A) \rightarrow DFS(C) \rightarrow DFS(D) \rightarrow \frac{DFS(F)}{DFS(D)}$$

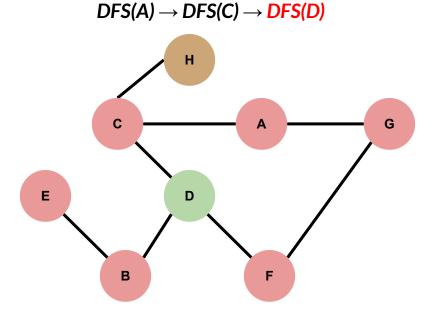


Order of DFS: A, C, D, B, E, F, G

- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	Т
G	Т
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

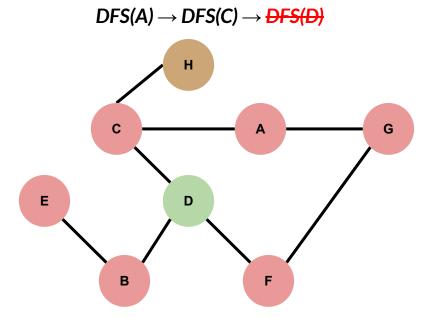


Order of DFS: A, C, D, B, E, F, G

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	Т
G	Т
Н	F

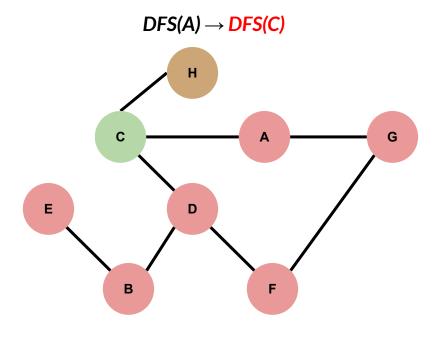
Starting from A, write the order in which vertices are visited using **DFS**.



- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	Т
G	Т
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

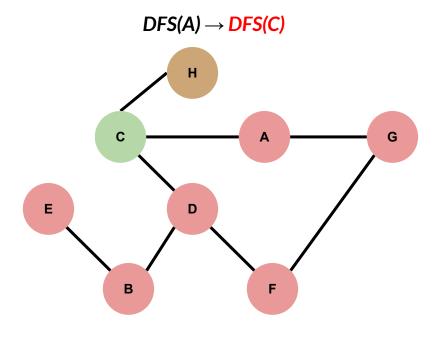


Order of DFS: A, C, D, B, E, F, G

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	Т
G	Т
н	F

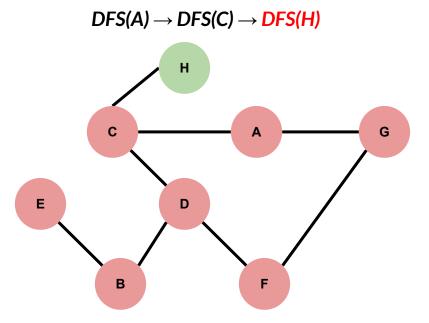
Starting from A, write the order in which vertices are visited using **DFS**.



- 1. DFS(v):
 - Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	Т
G	Т
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

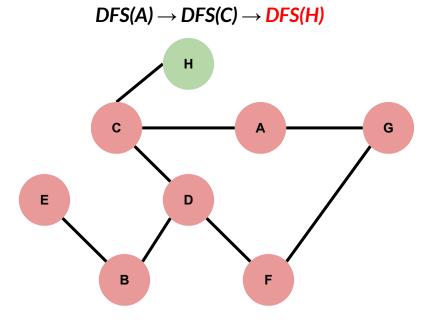


Order of DFS: A, C, D, B, E, F, G, H

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	Т
G	Т
Н	F

Starting from A, write the order in which vertices are visited using **DFS**.

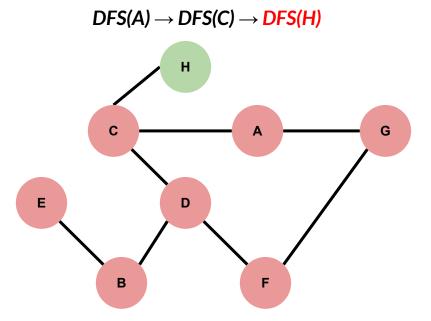


Order of DFS: A, C, D, B, E, F, G, H

- Mark v
- 2. For every unmarked neighbor n:
 - Call DFS(n)

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	Т
F	Т
G	Т
Н	т

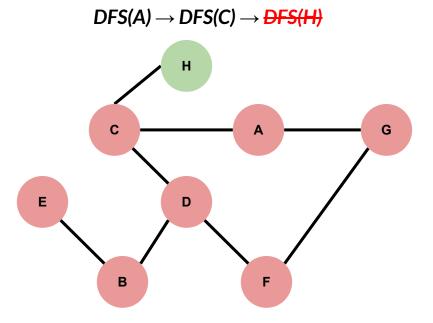
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G	Т
Н	Т

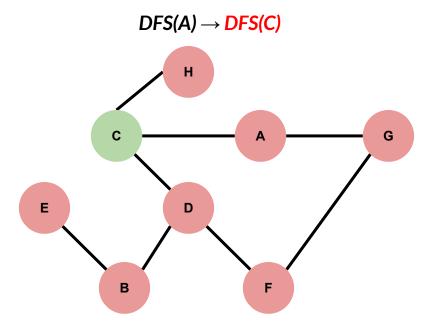
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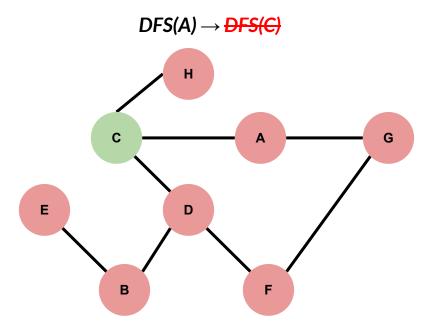


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В	Т
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D	Т
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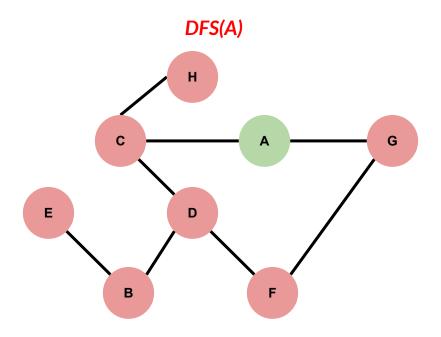
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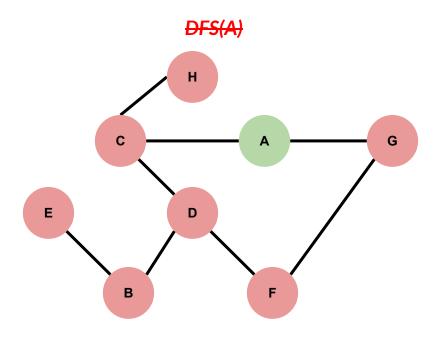
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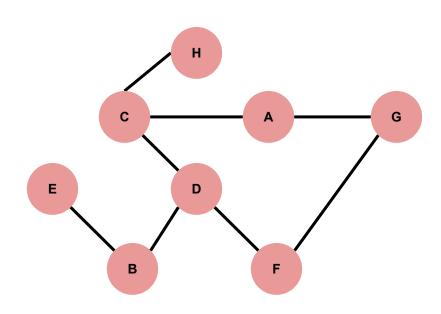
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