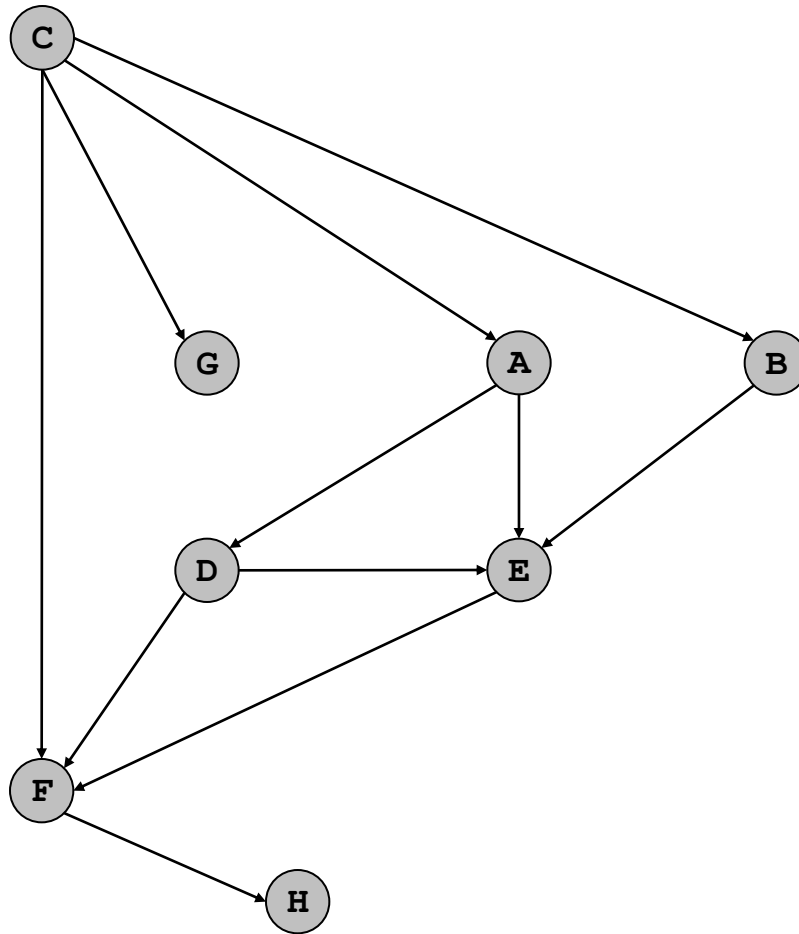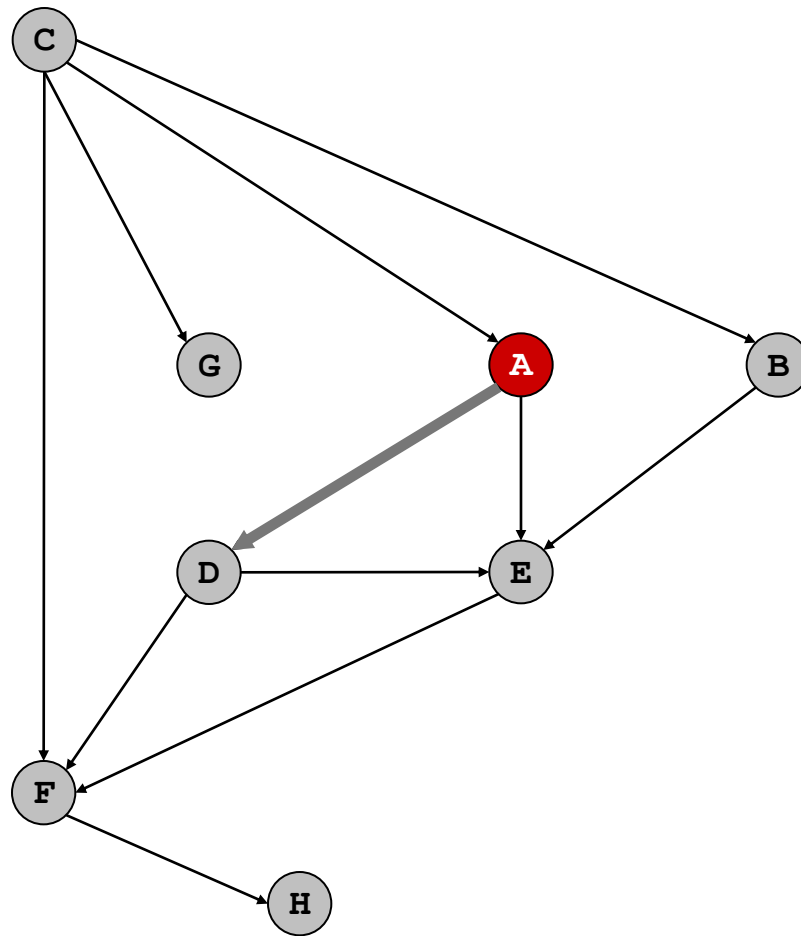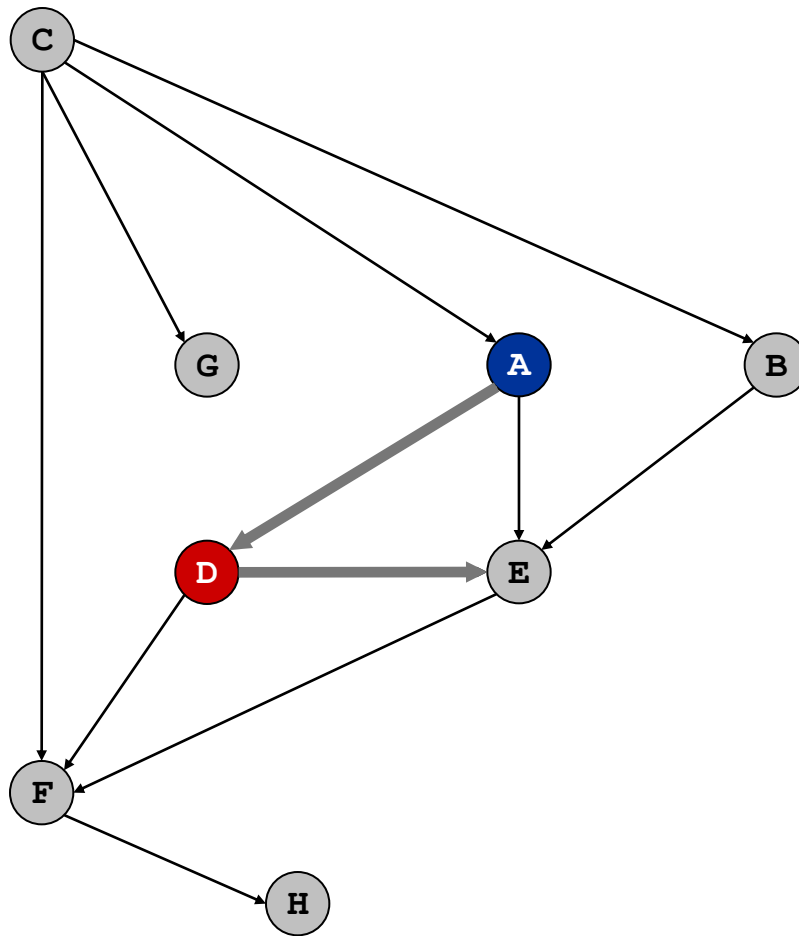# Topological Sort: DFS

Topological Sort: DFS

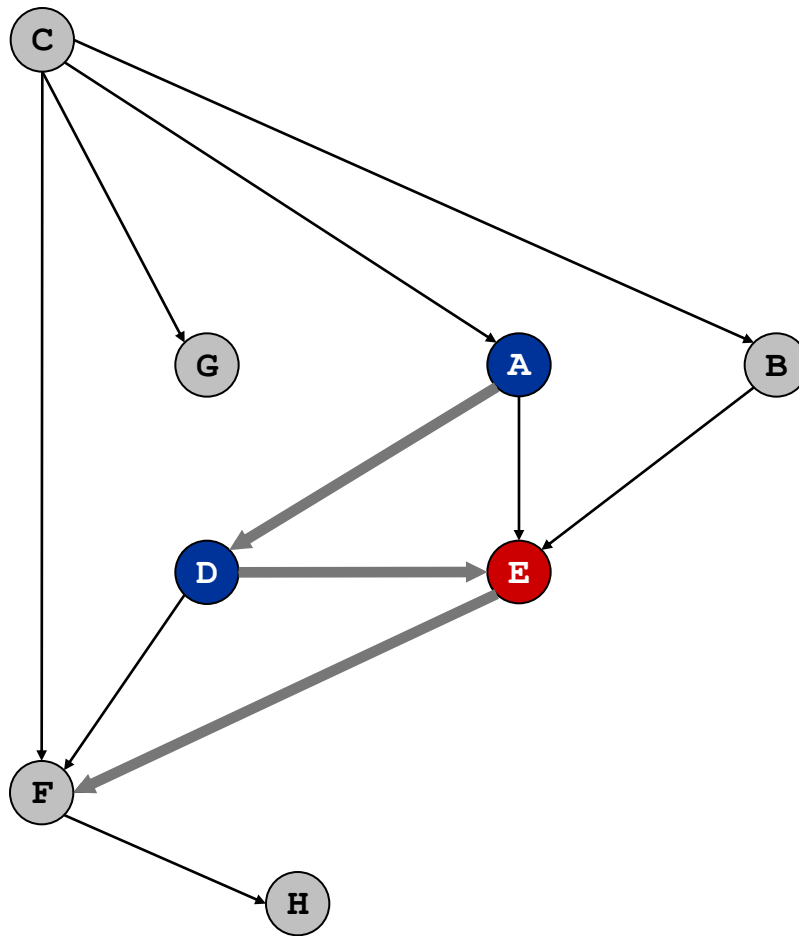
`dfs(A)`

Topological Sort: DFS

`dfs(A)`
   `dfs(D)`

Topological Sort: DFS


```
dfs(A)
  dfs(D)
    dfs(E)
```

Topological Sort: DFS


```
dfs(A)
  dfs(D)
    dfs(E)
      dfs(F)
```

Topological Sort: DFS
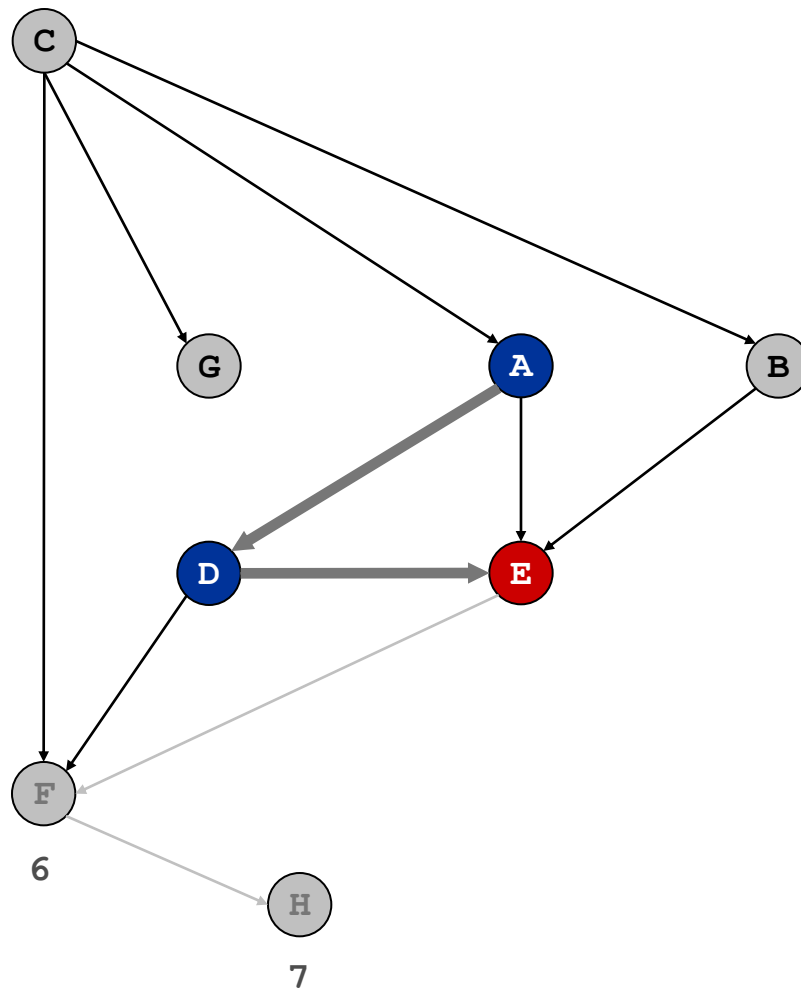

```
dfs(A)
   dfs(D)
      dfs(E)
         dfs(F)
            dfs(H)
```
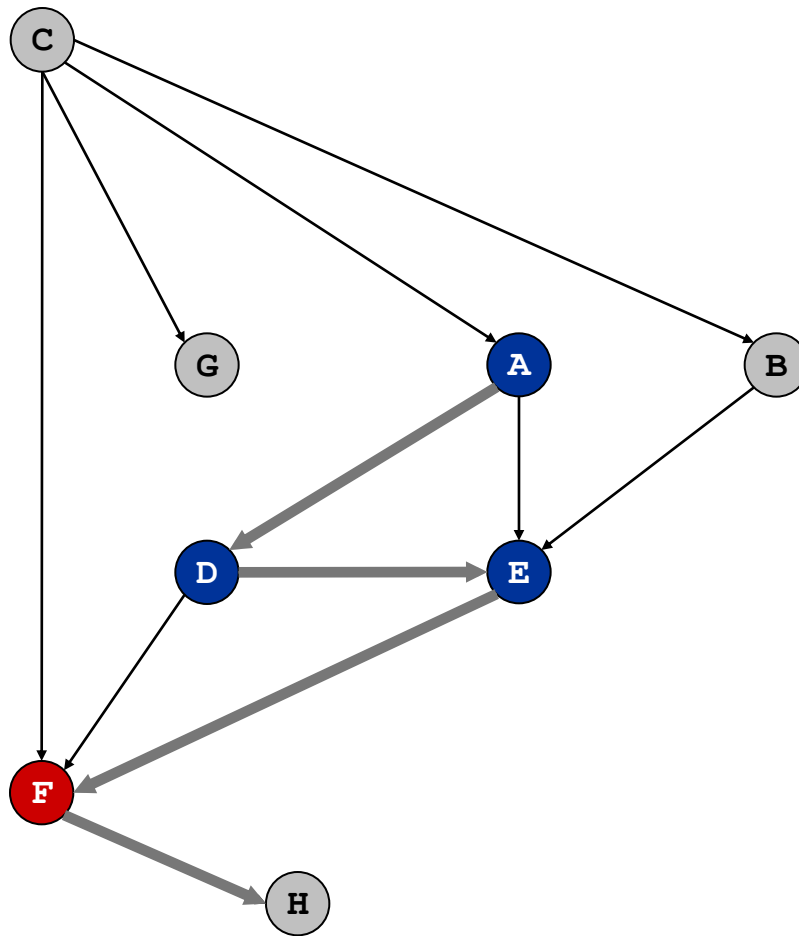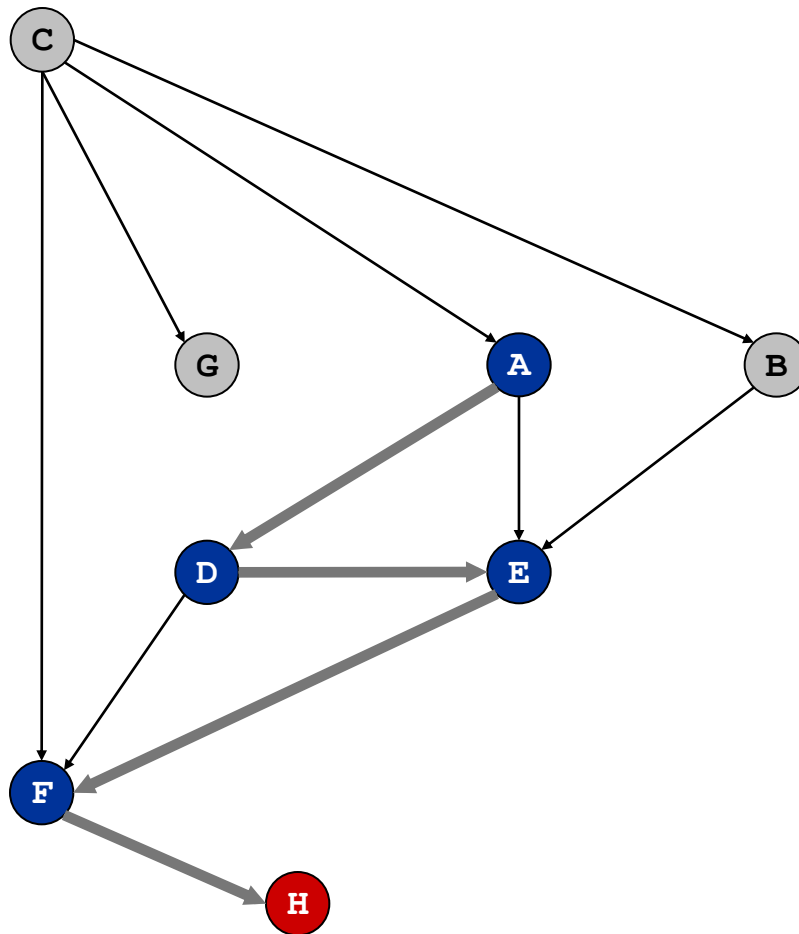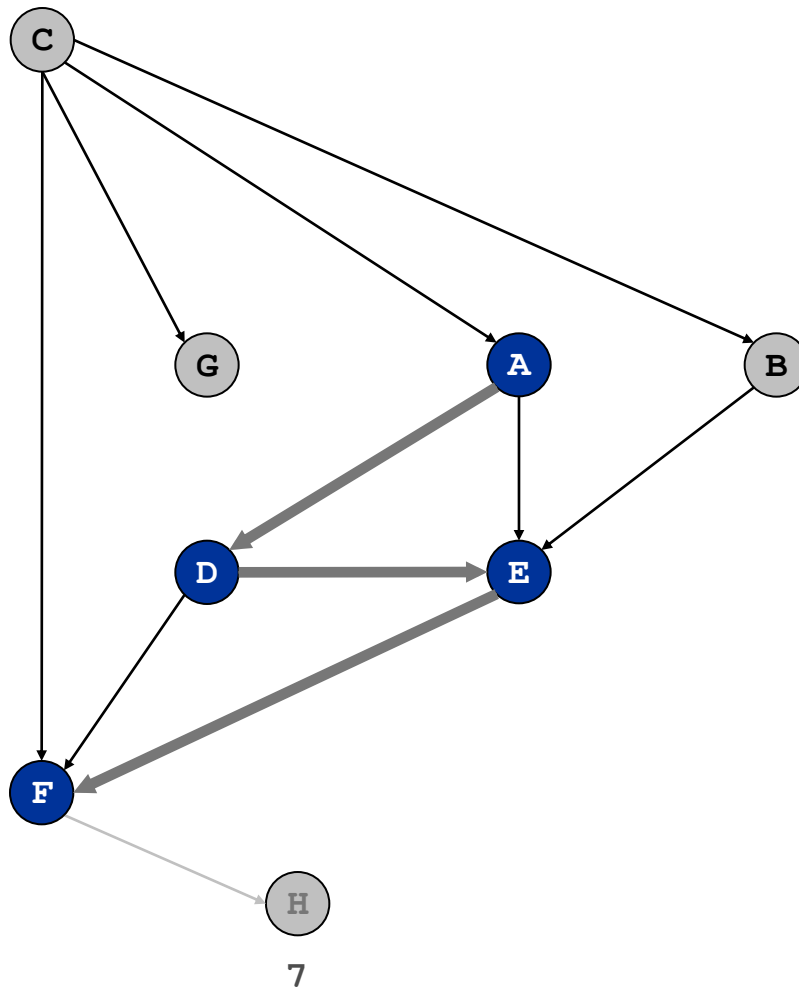
Topological Sort: DFS
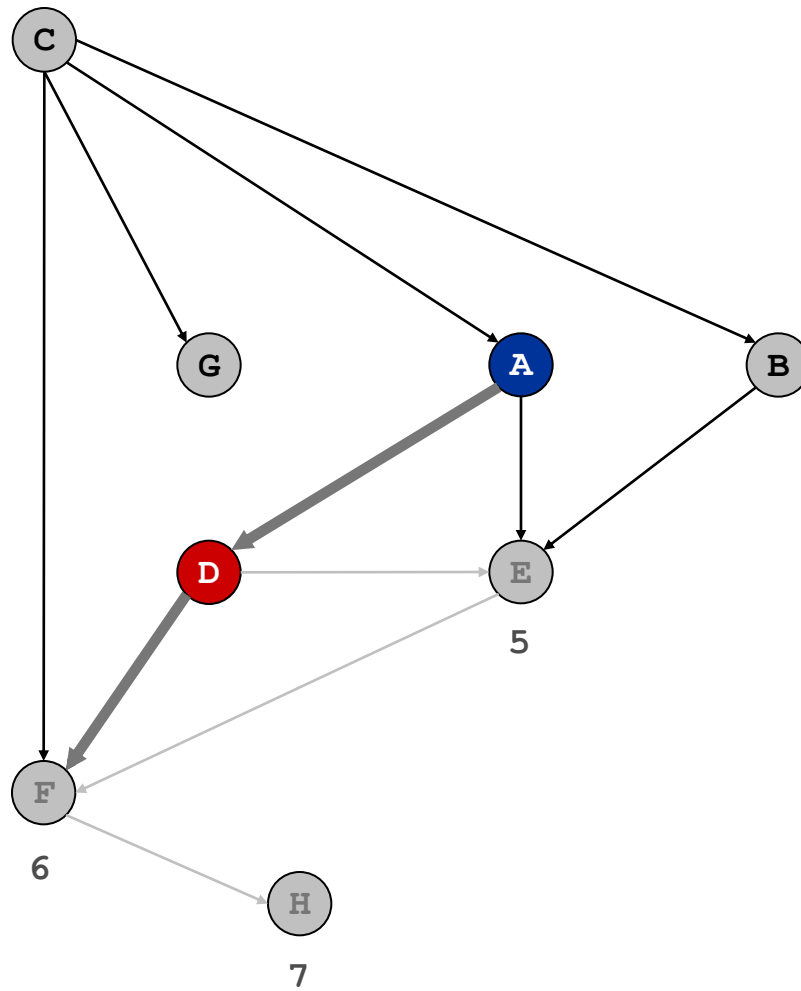


```
dfs(A)
   dfs(D)
      dfs(E)
         dfs(F)
```

7
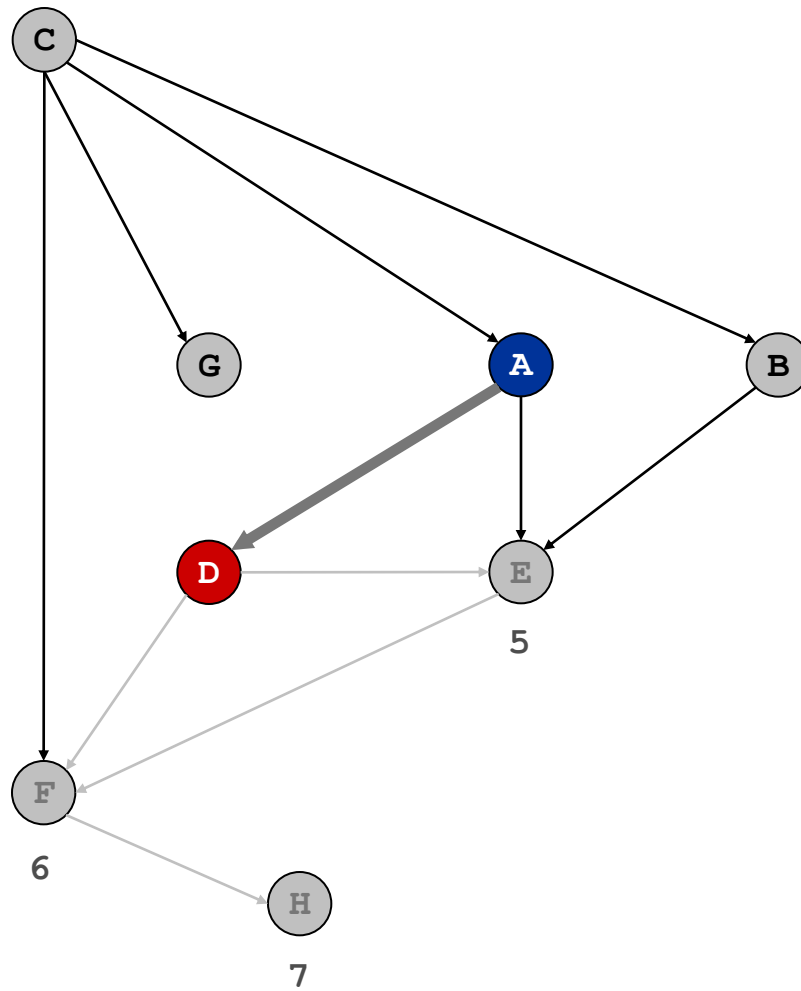
Topological Sort: DFS


```
dfs(A)
  dfs(D)
    dfs(E)
```

Topological Sort: DFS


```
dfs(A)
  dfs(D)
```

Topological Sort: DFS


```
dfs(A)
  dfs(D)
```

Topological Sort: DFS

dfs(A)

C

G   A   B

D   E
4   5

F
6   H
           7

Topological Sort: DFS

`dfs(A)`

Topological Sort: DFS

C

G   A   3   B

D   E
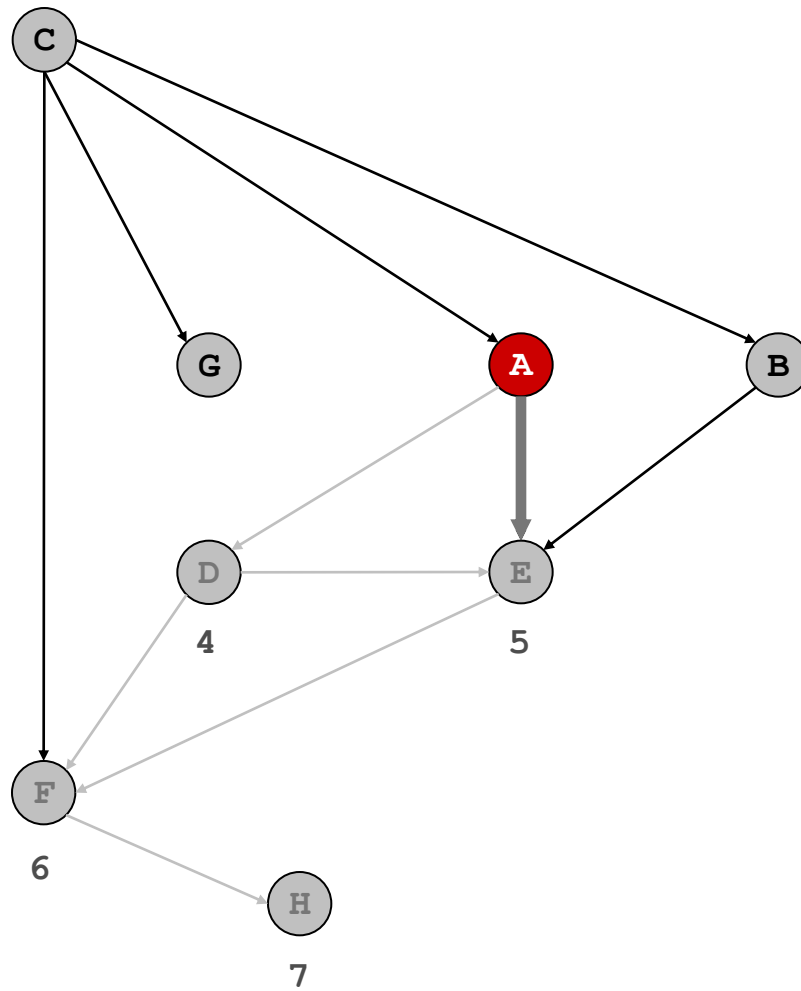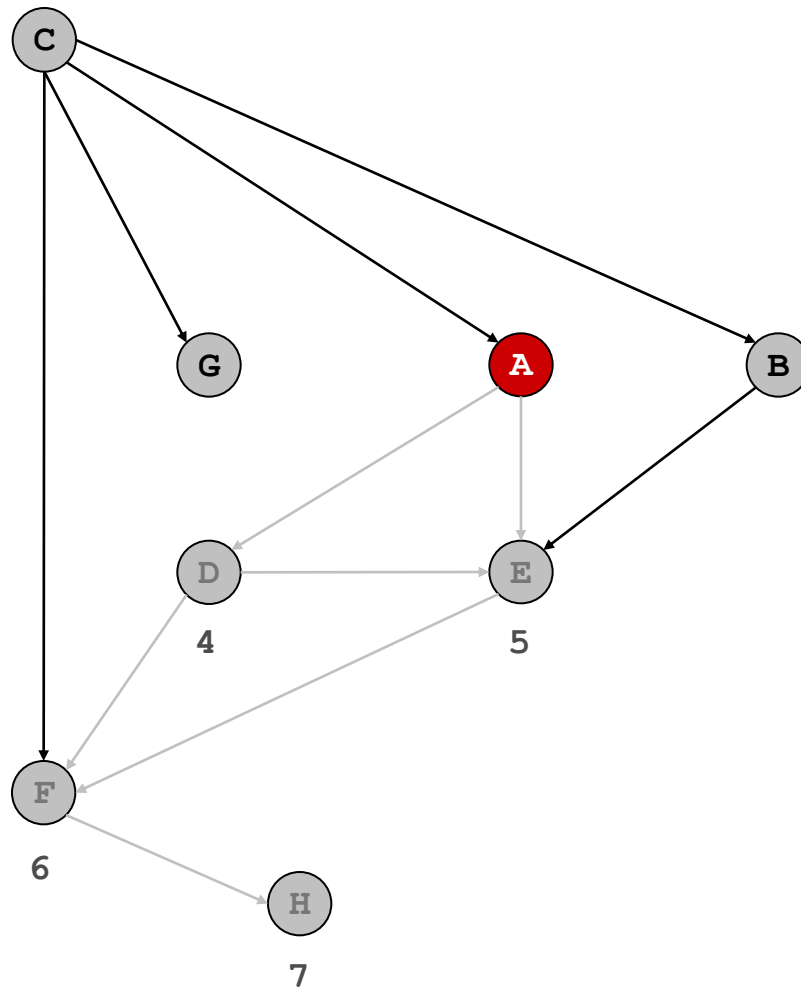
4   5

F

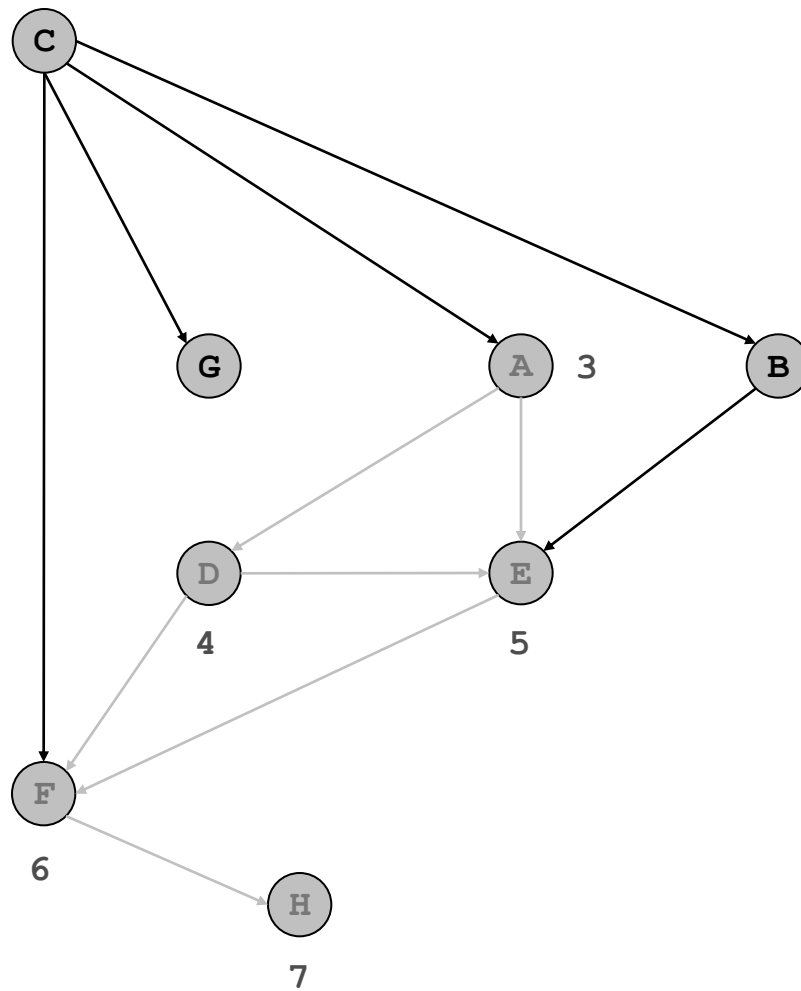6

H

7

Topological Sort: DFS

`dfs(B)`

Topological Sort: DFS
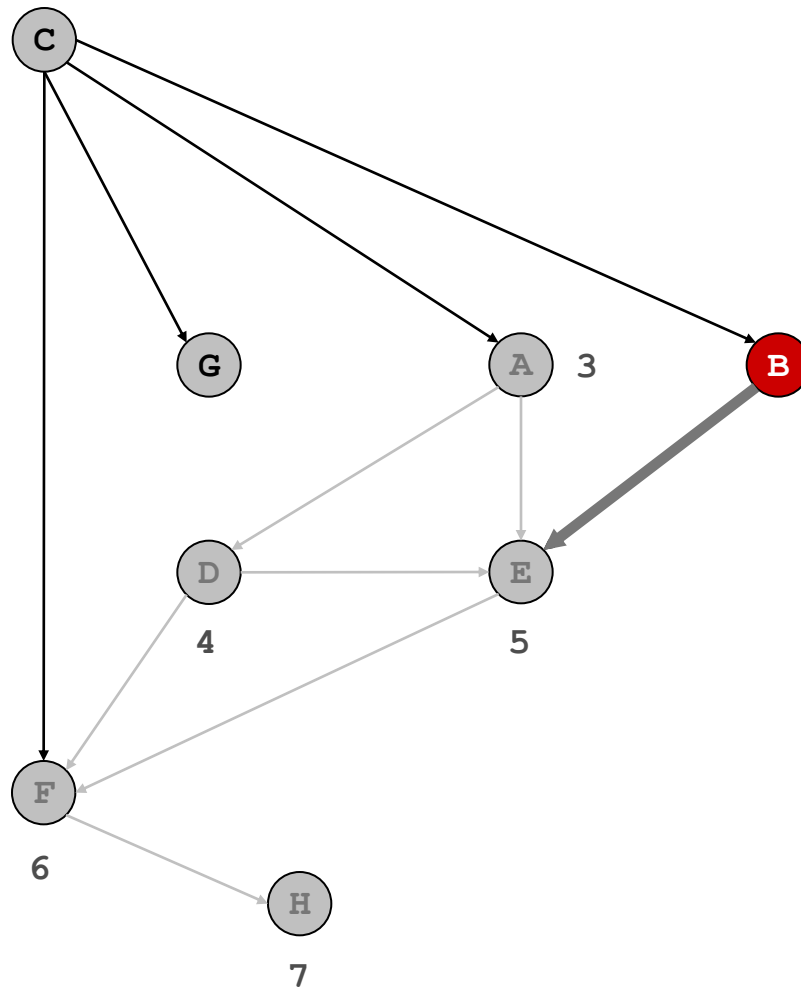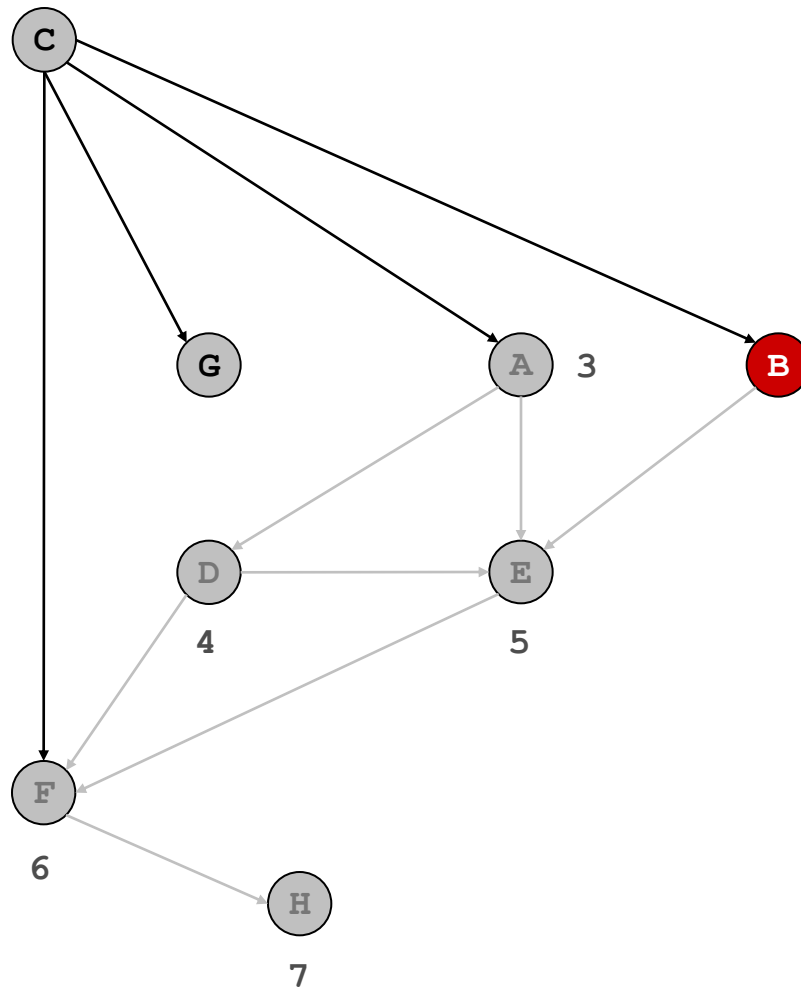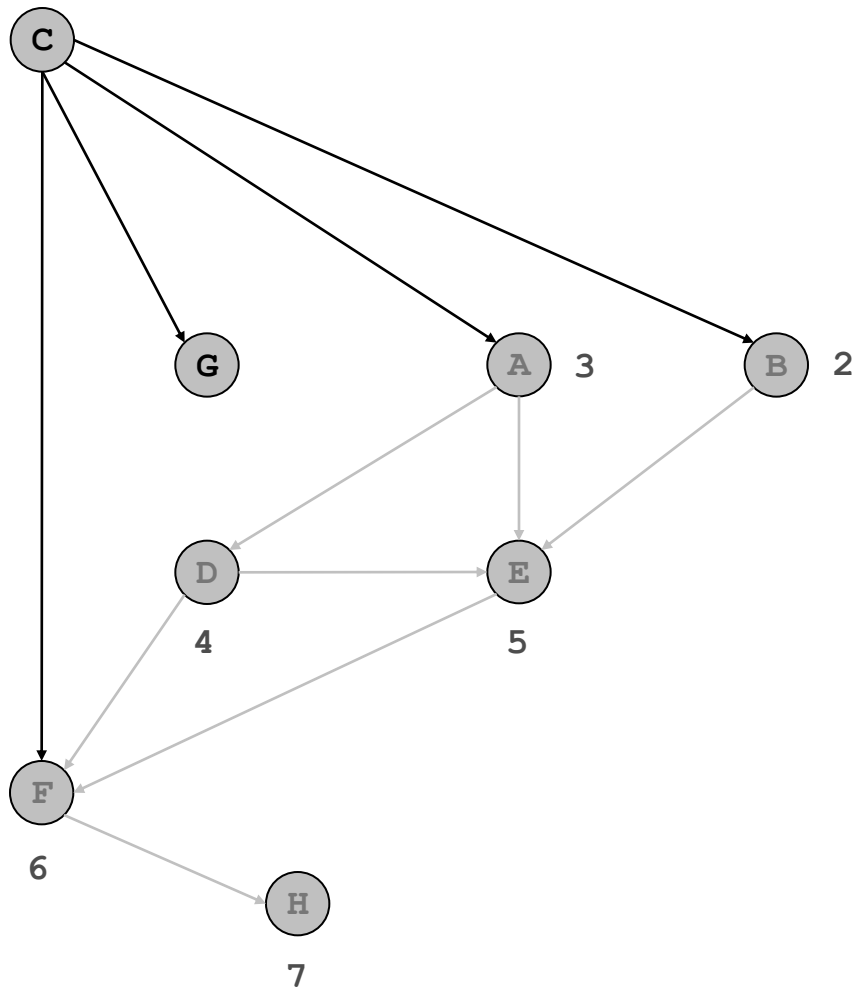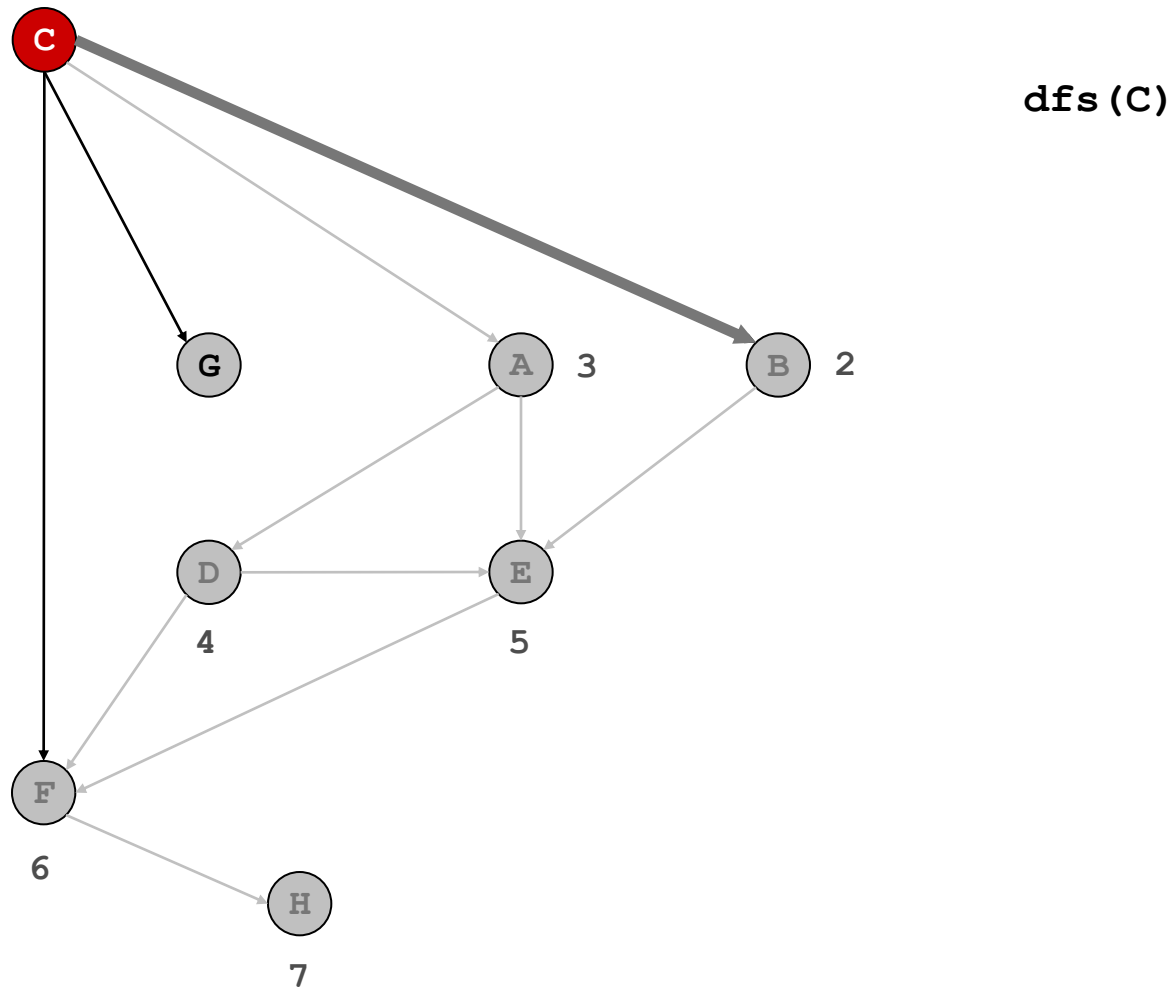

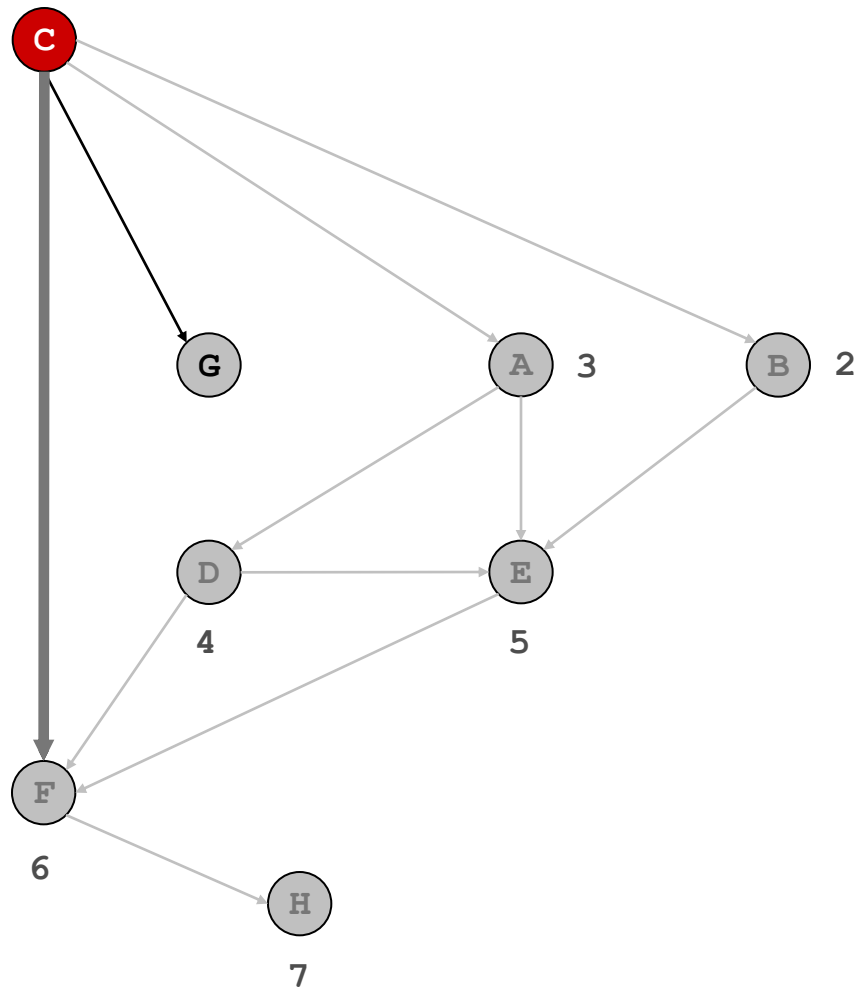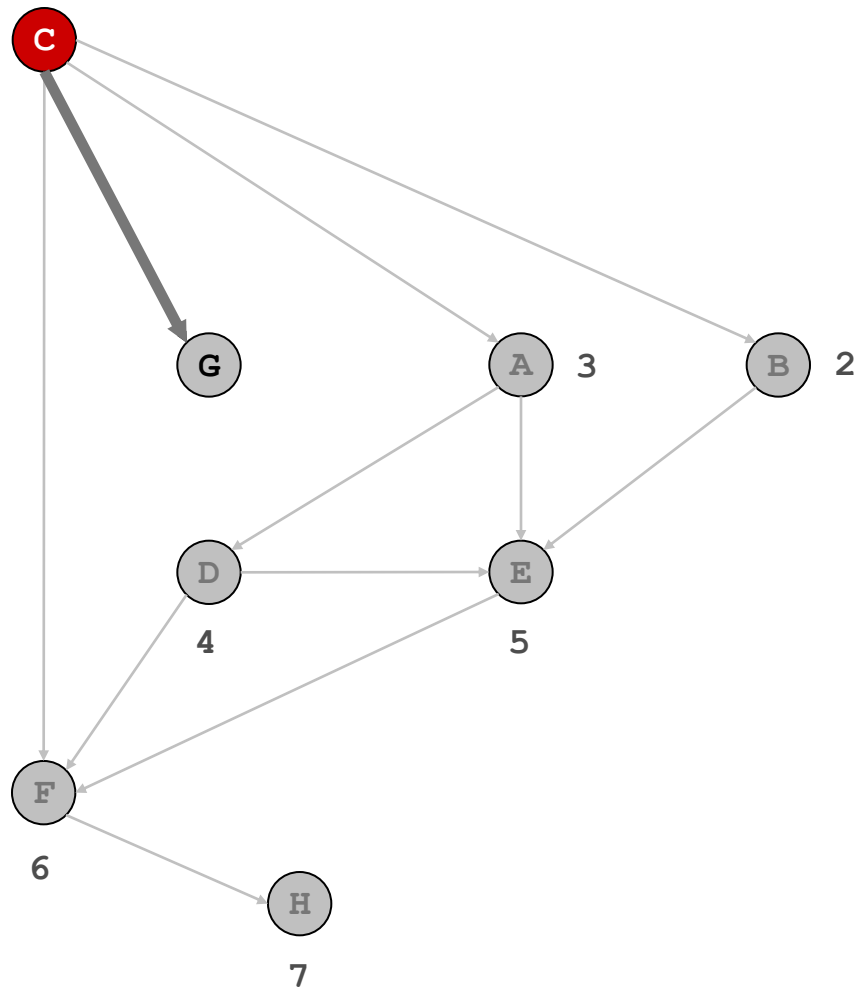**dfs(B)**

Topological Sort: DFS

Topological Sort: DFS

`dfs(C)`

C

G   A   3   B   2

D   E

4   5

F

6

H

7

Topological Sort: DFS

dfs(C)

C

G   A   3   B   2

D   E
4   5

F

6

H

7
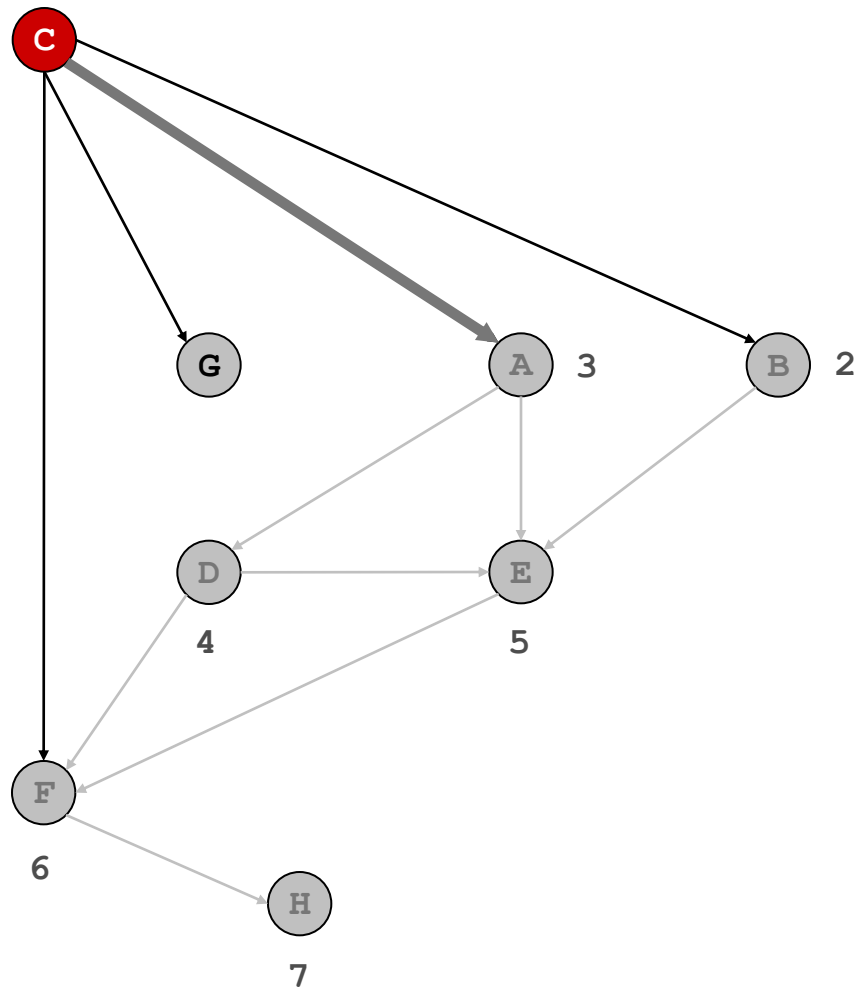
Topological Sort: DFS

`dfs(C)`

Topological Sort: DFS

C

dfs(C)

G   A   3   B   2

D   E

4   5

F

6

H

7

Topological Sort: DFS

dfs(C)
   dfs(G)

Topological Sort: DFS

C

G 1   A 3   B 2

D   E
4   5

F

6

H

7

`dfs(C)`

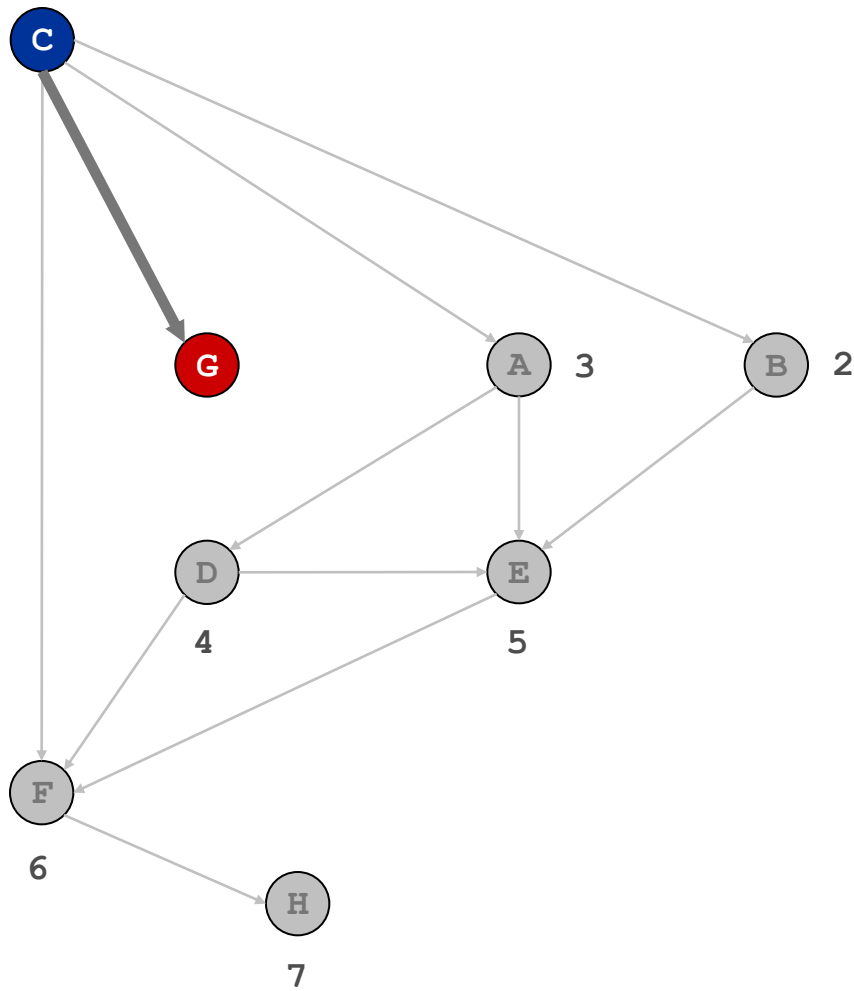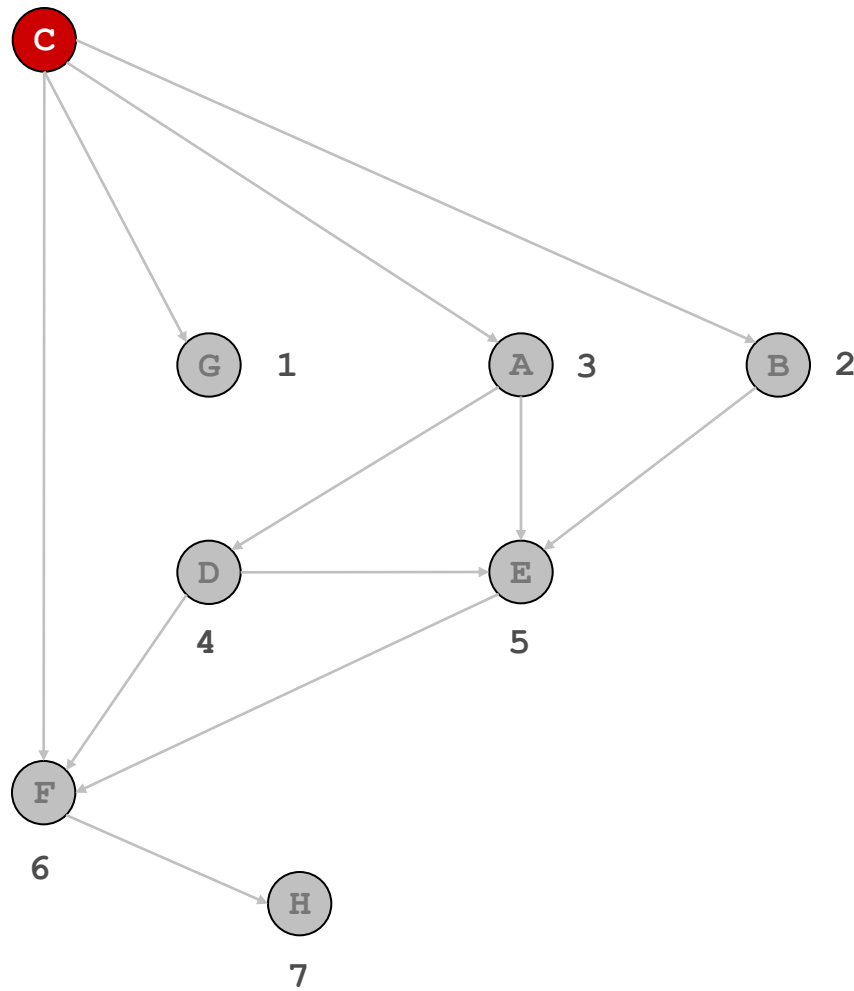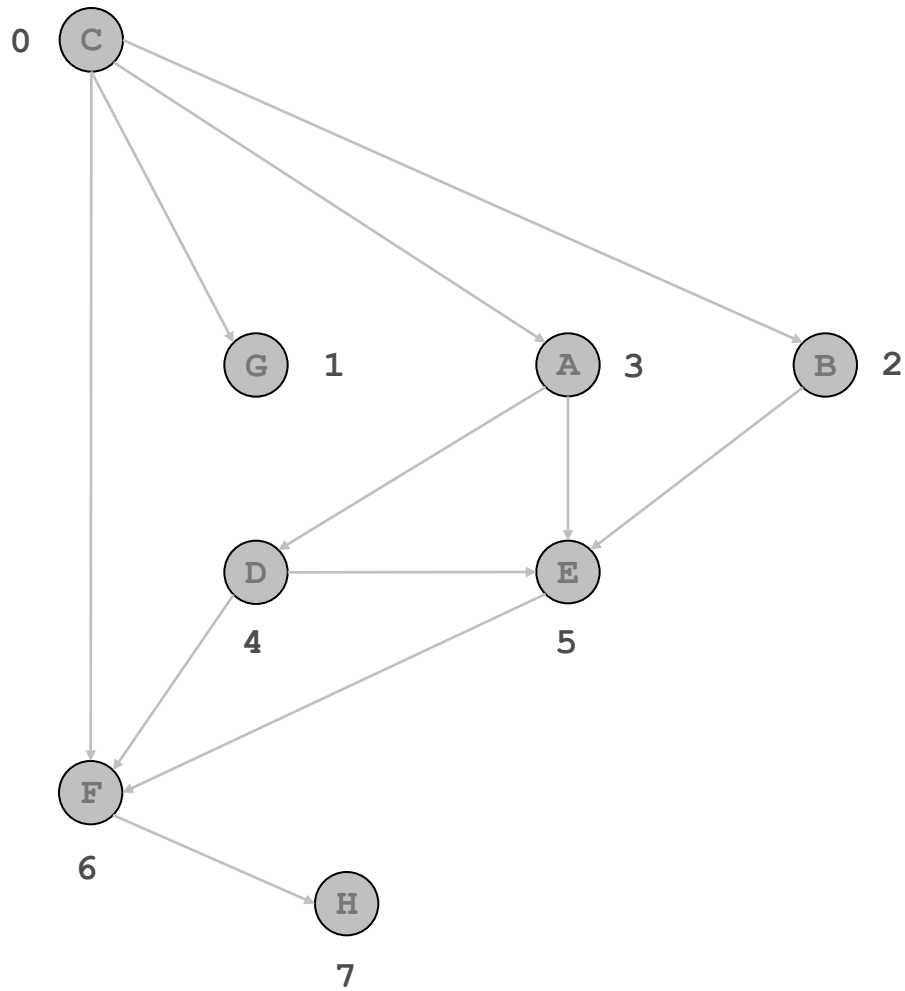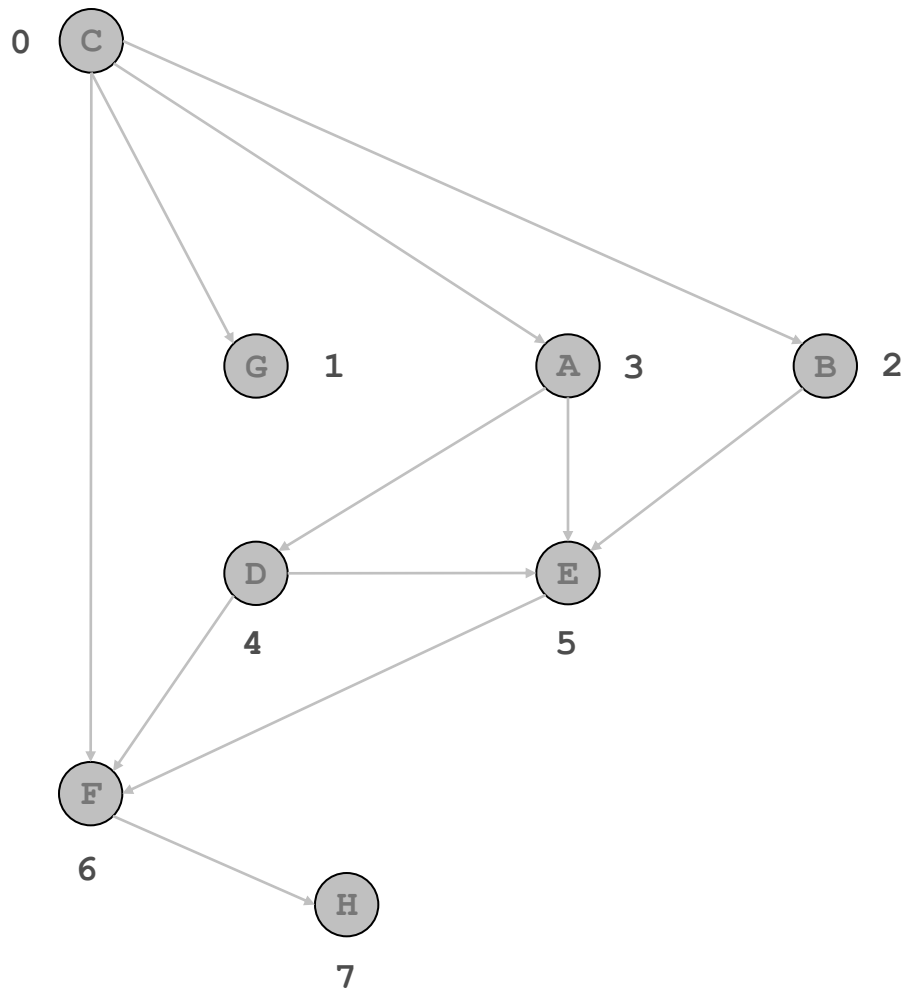# Topological Sort: DFS

Topological Sort: DFS

Topological order: **C G B A D E F H**