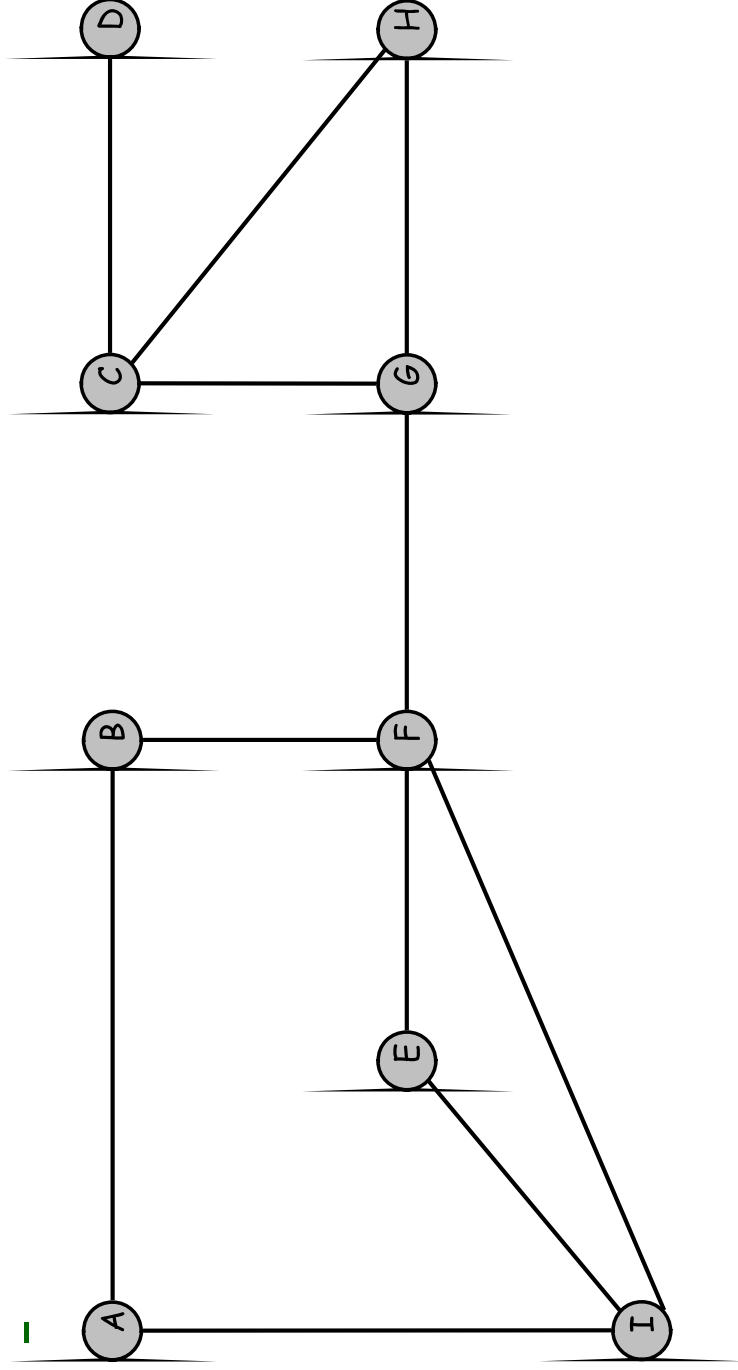


Breadth First Search

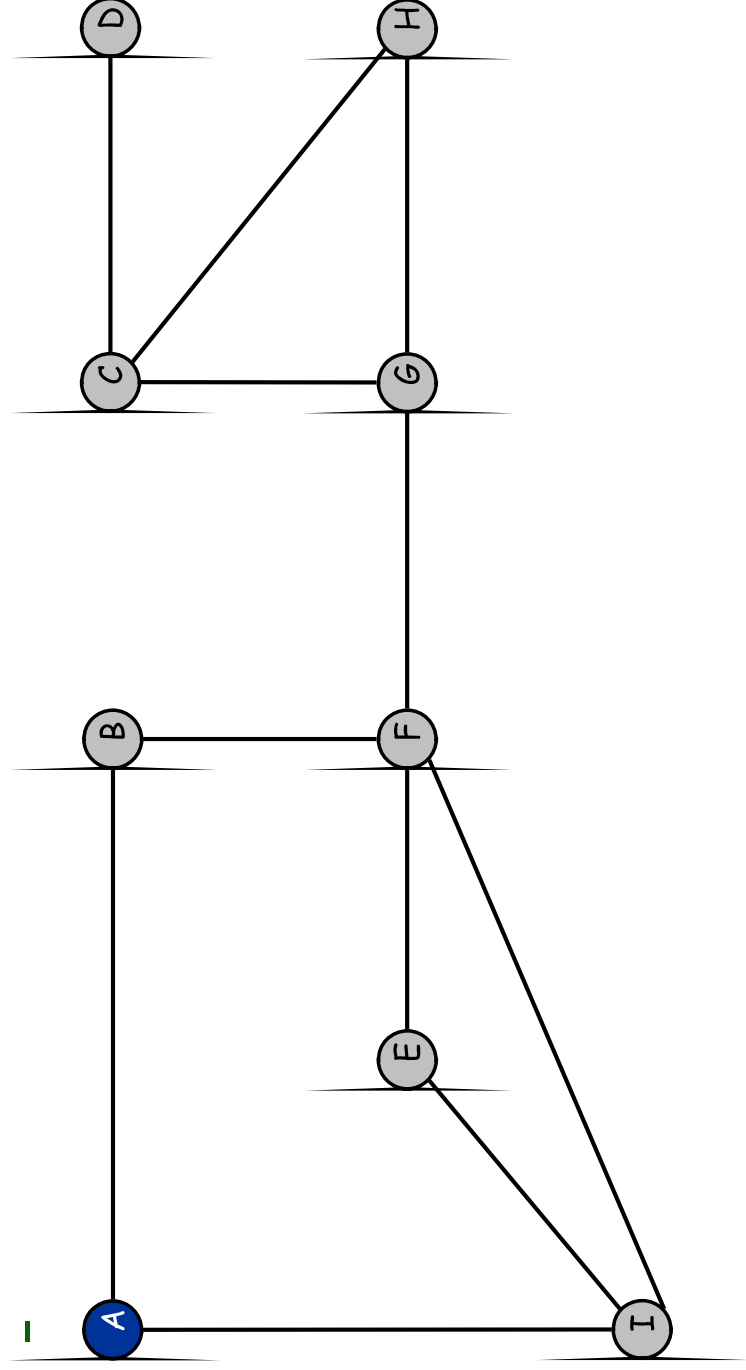


front



FIFO Queue

Breadth First Search



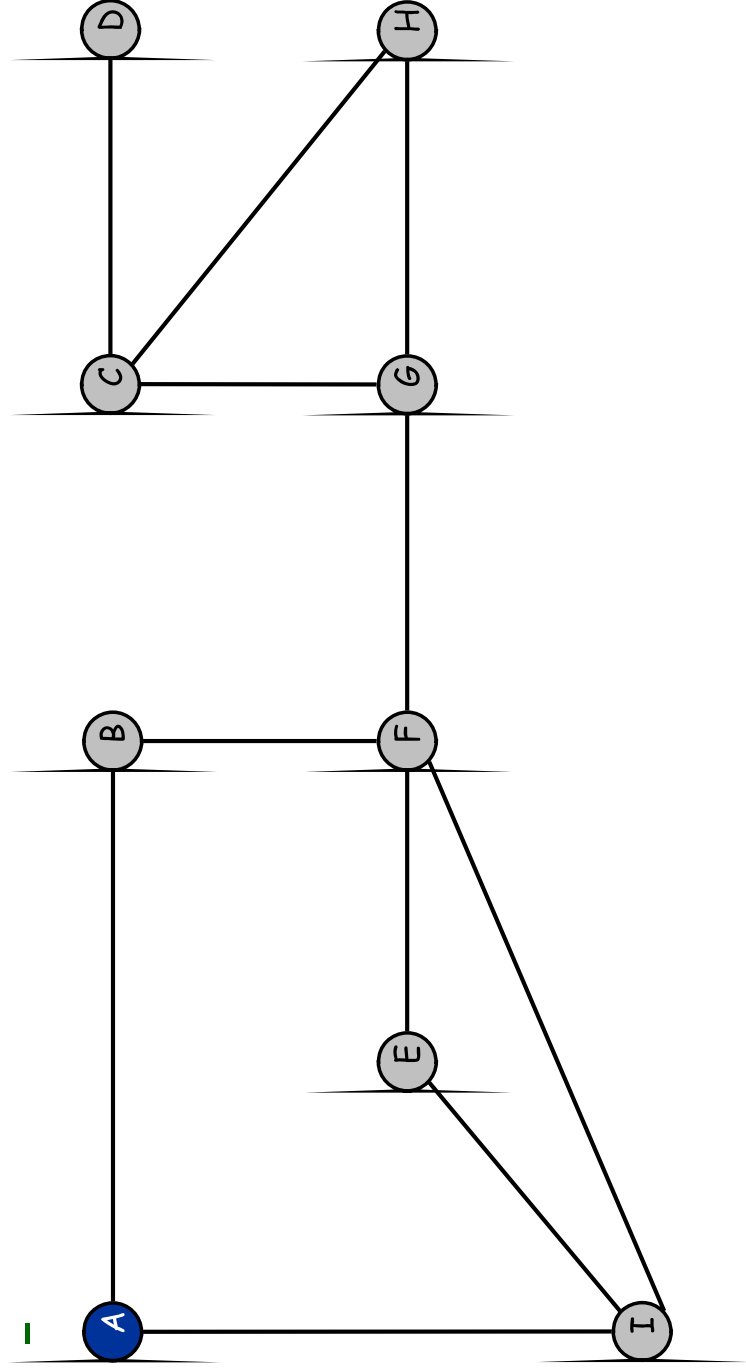
enqueue source node

front

A

FIFO Queue

Breadth First Search



dequeue next vertex

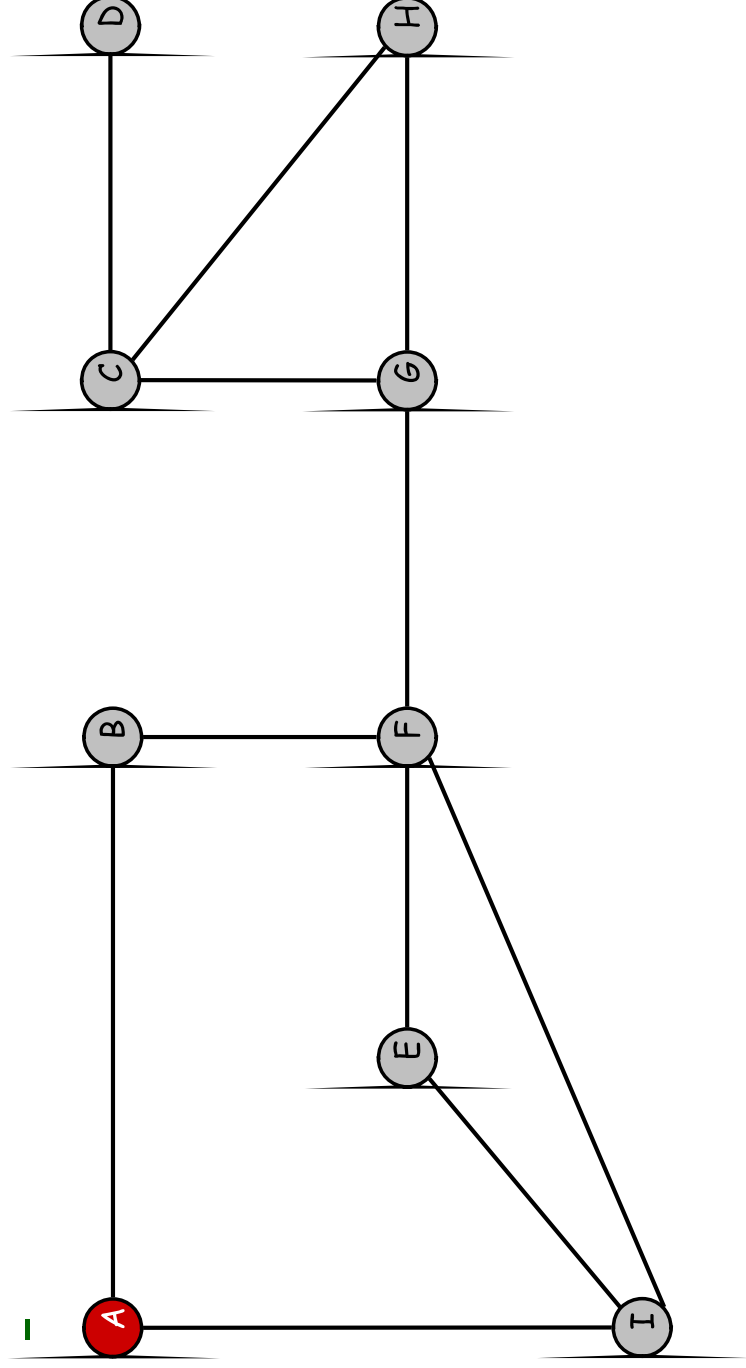
front

A

FIFO Queue

A

Breadth First Search



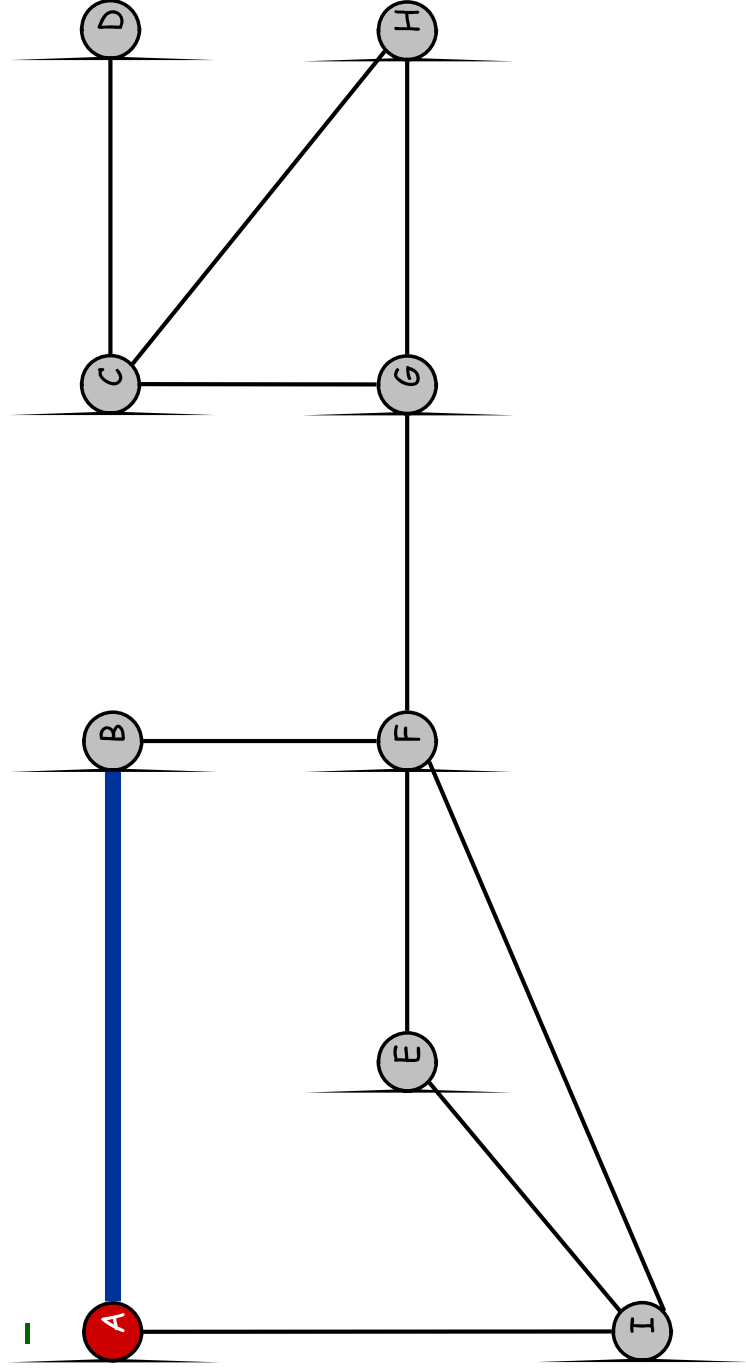
visit neighbors of A

front

FIFO Queue

A

Breadth First Search



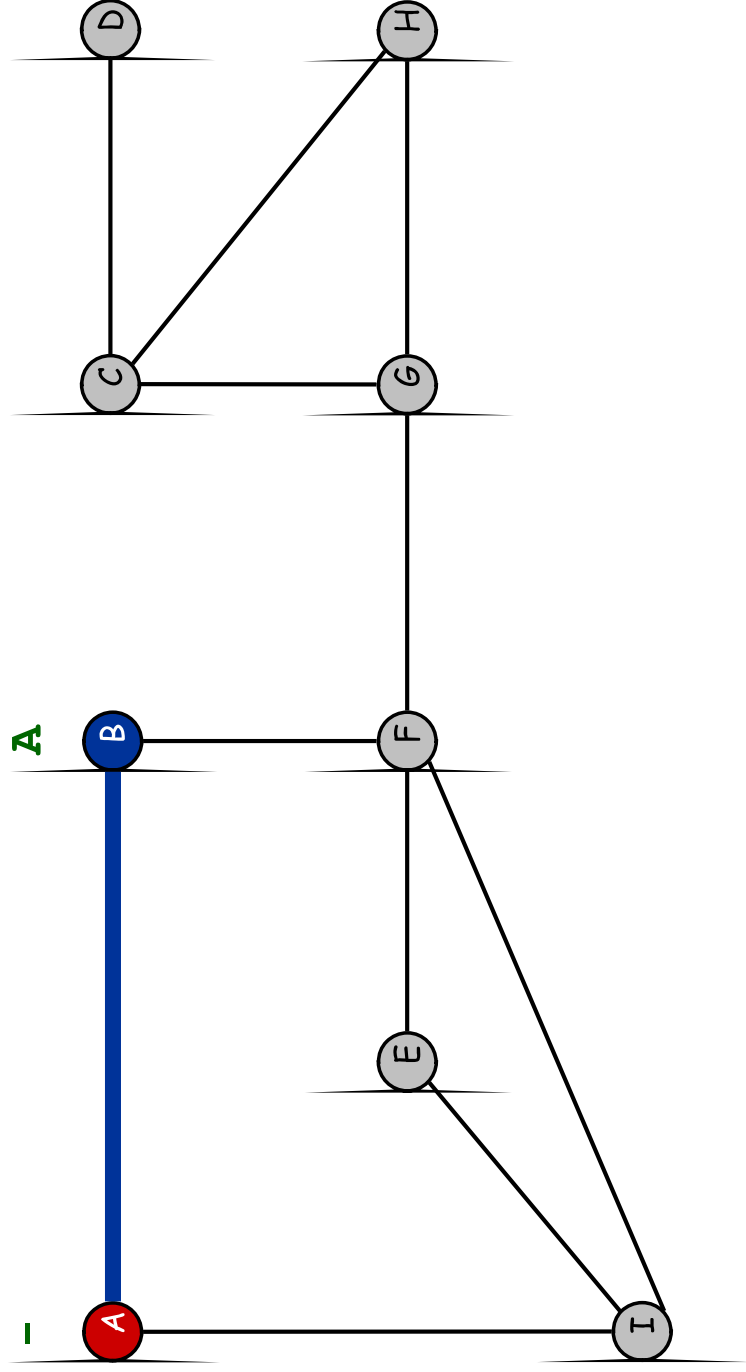
visit neighbors of A

front

FIFO Queue

A

Breadth First Search



B discovered

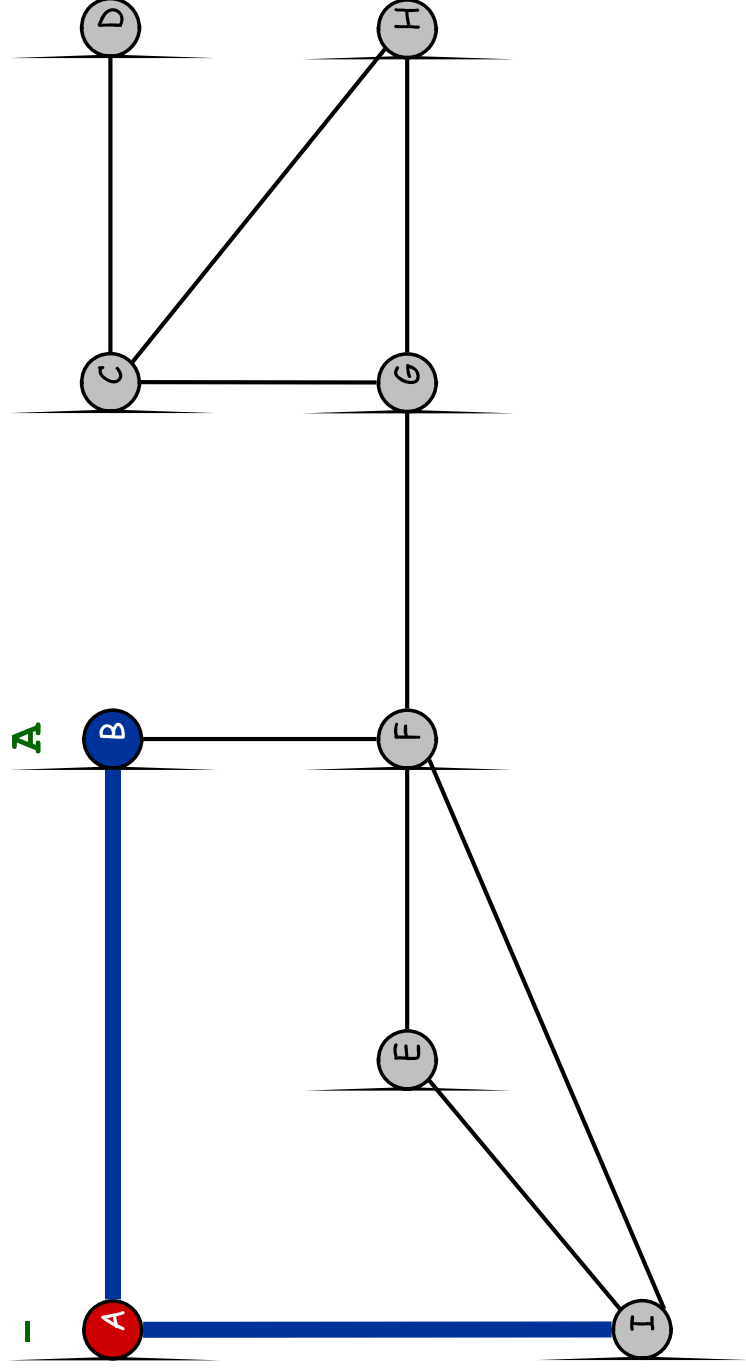
front

B

FIFO Queue

A

Breadth First Search



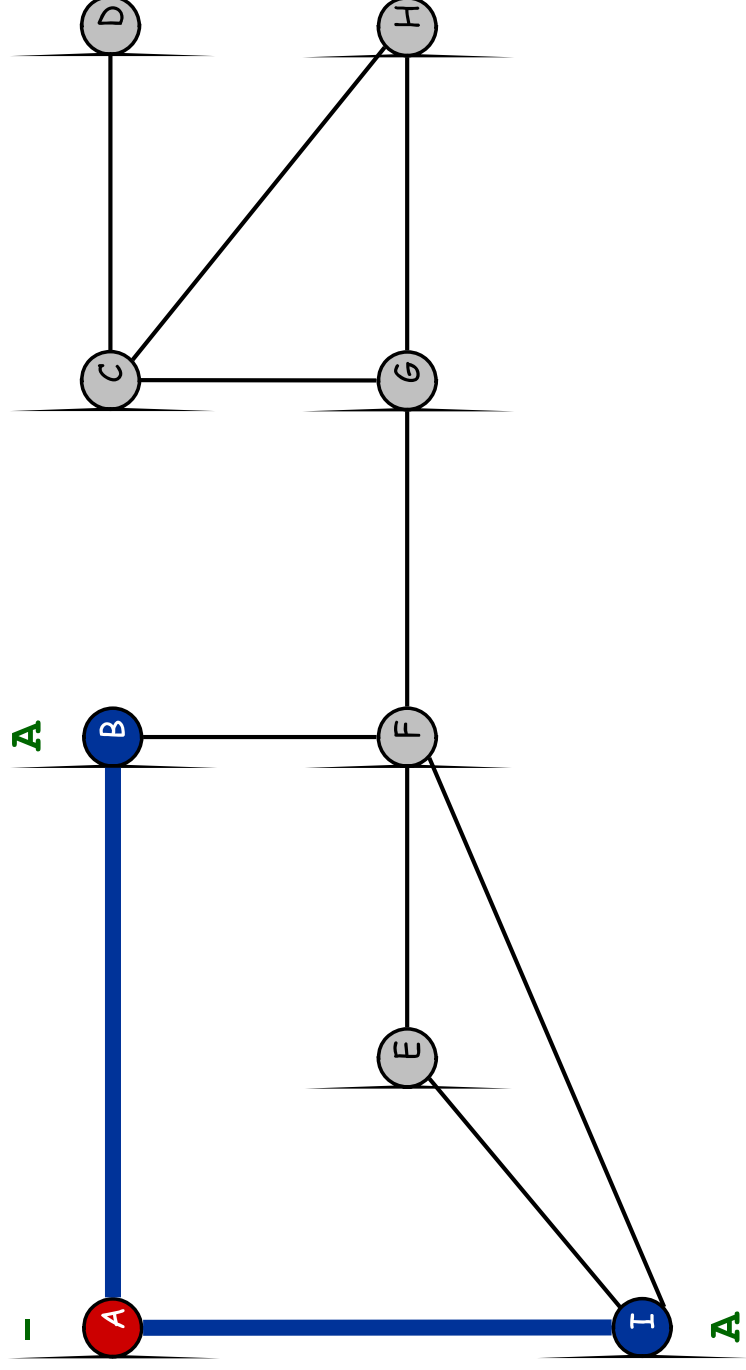
visit neighbors of A

front B

FIFO Queue

A

Breadth First Search



I discovered

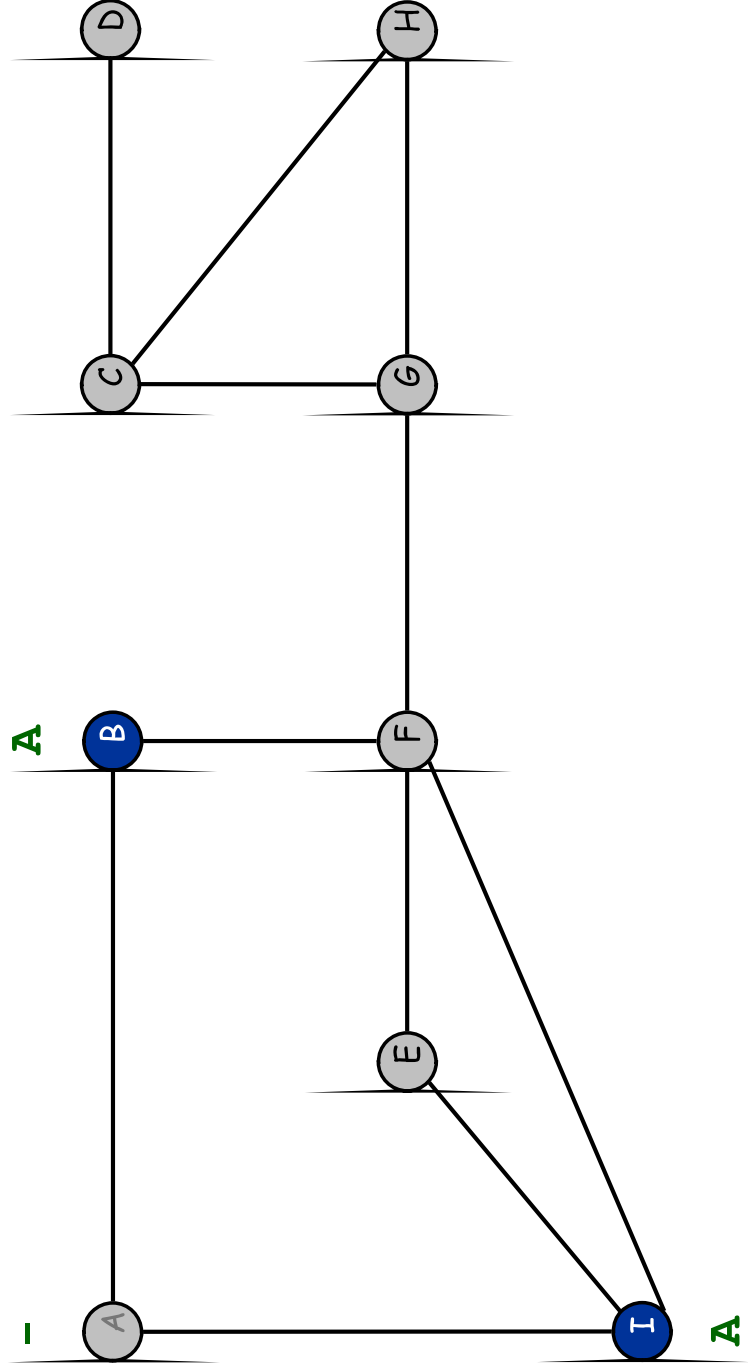
front

HB
B

FIFO Queue

A

Breadth First Search



finished with A

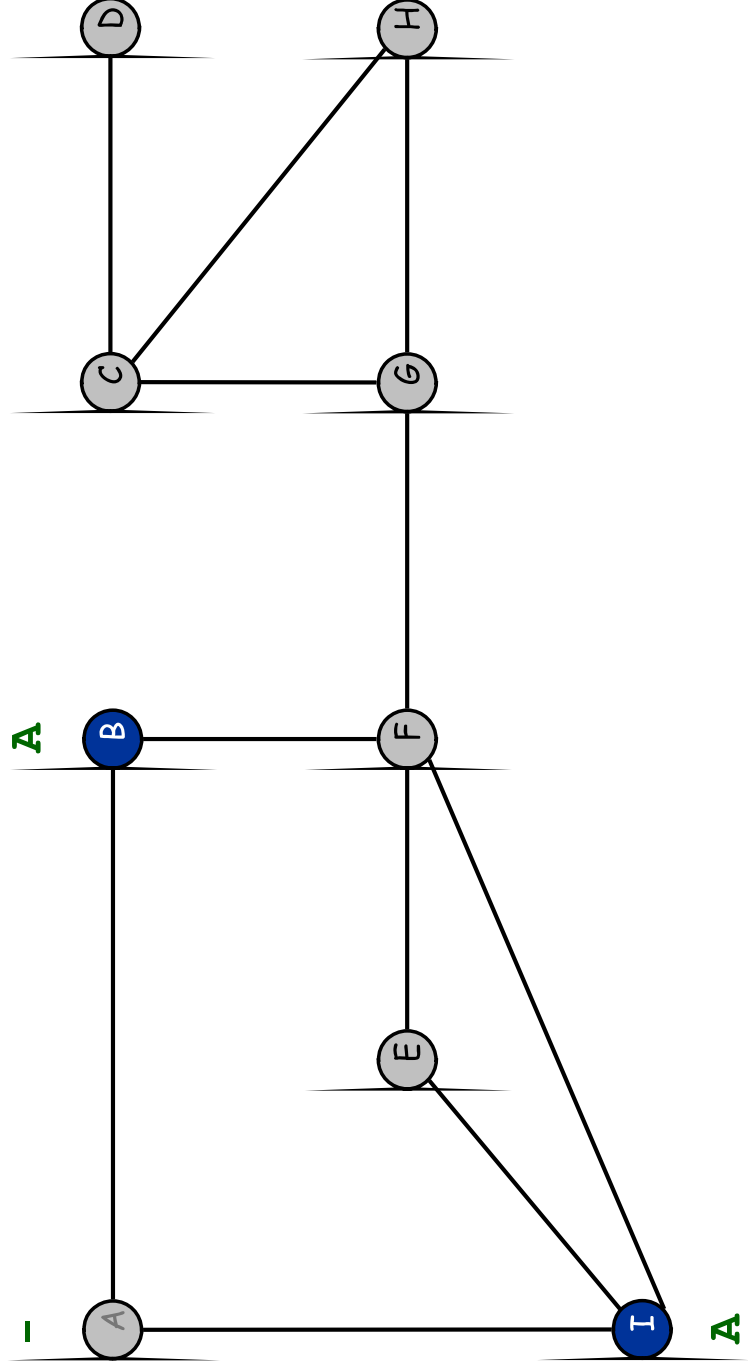
front

B I

FIFO Queue

A

Breadth First Search



dequeue next vertex

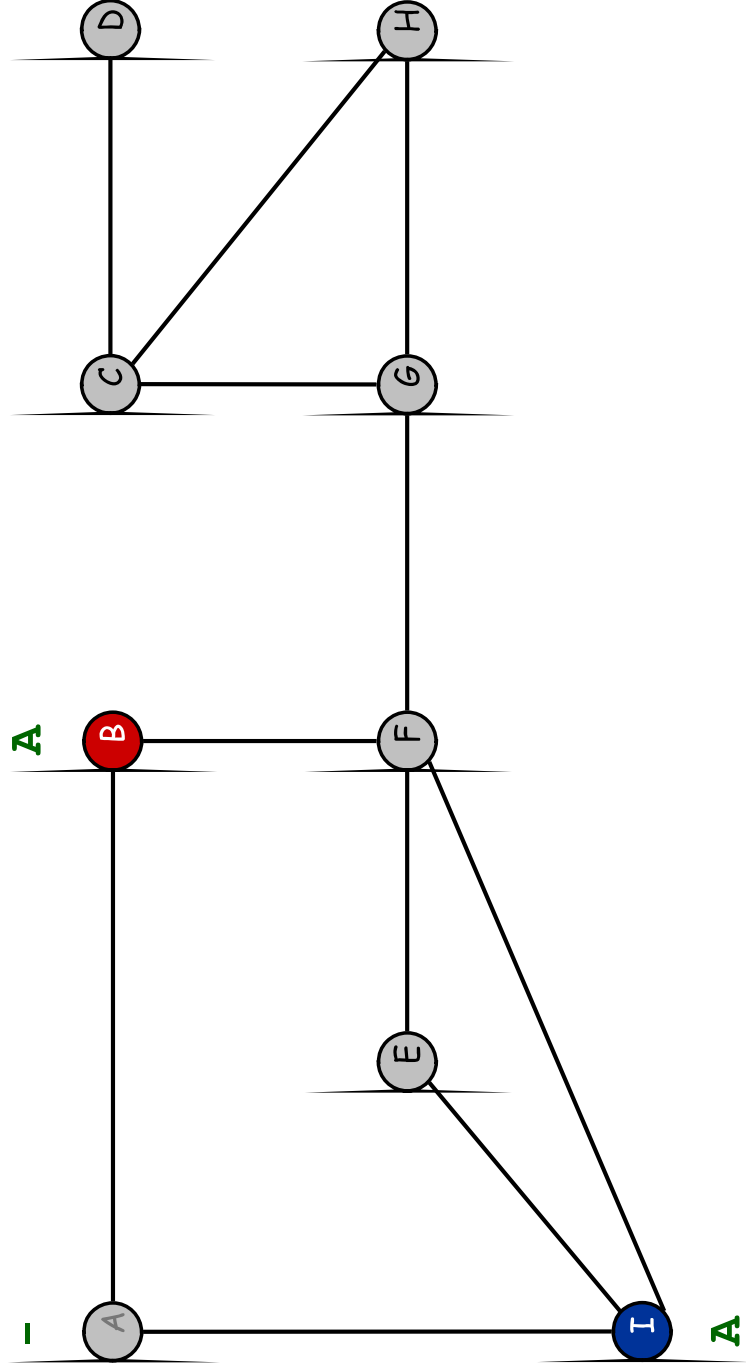
front

B I

FIFO Queue

A B

Breadth First Search



visit neighbors of B

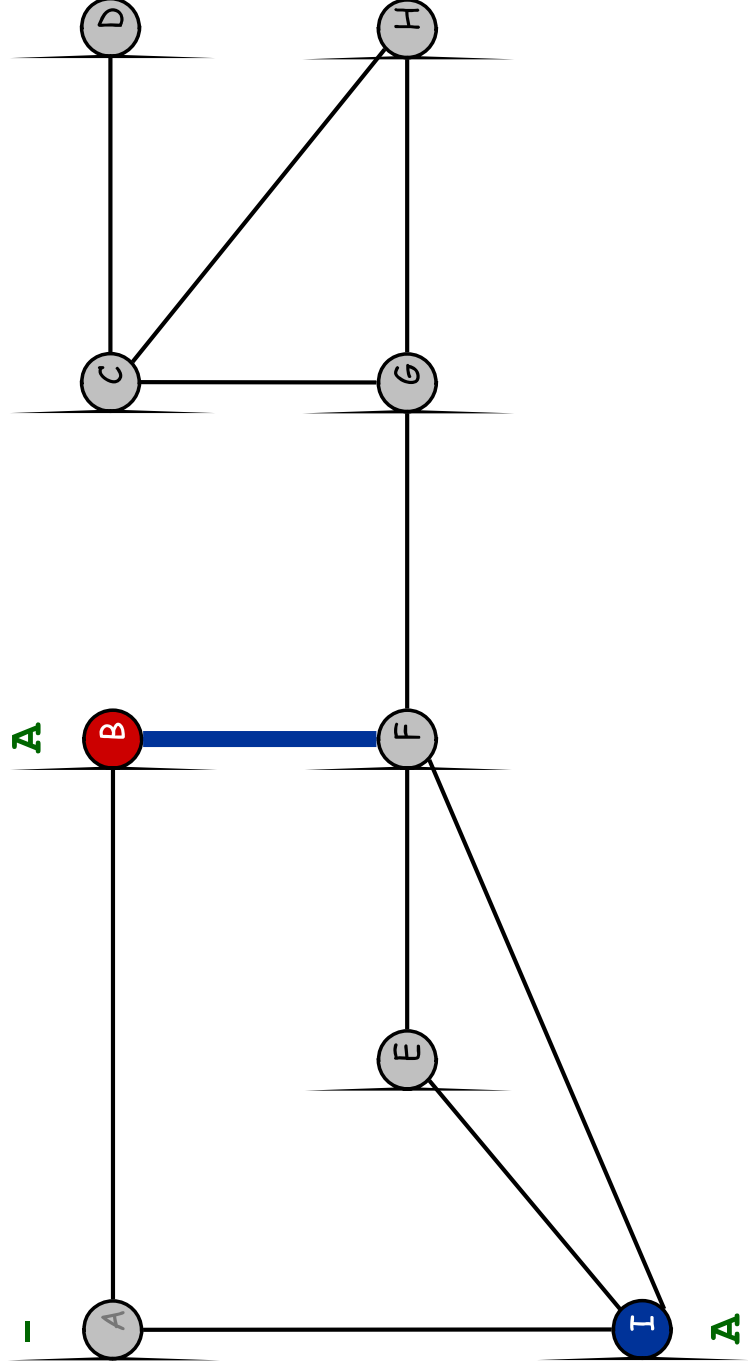
front

I

FIFO Queue

A B

Breadth First Search



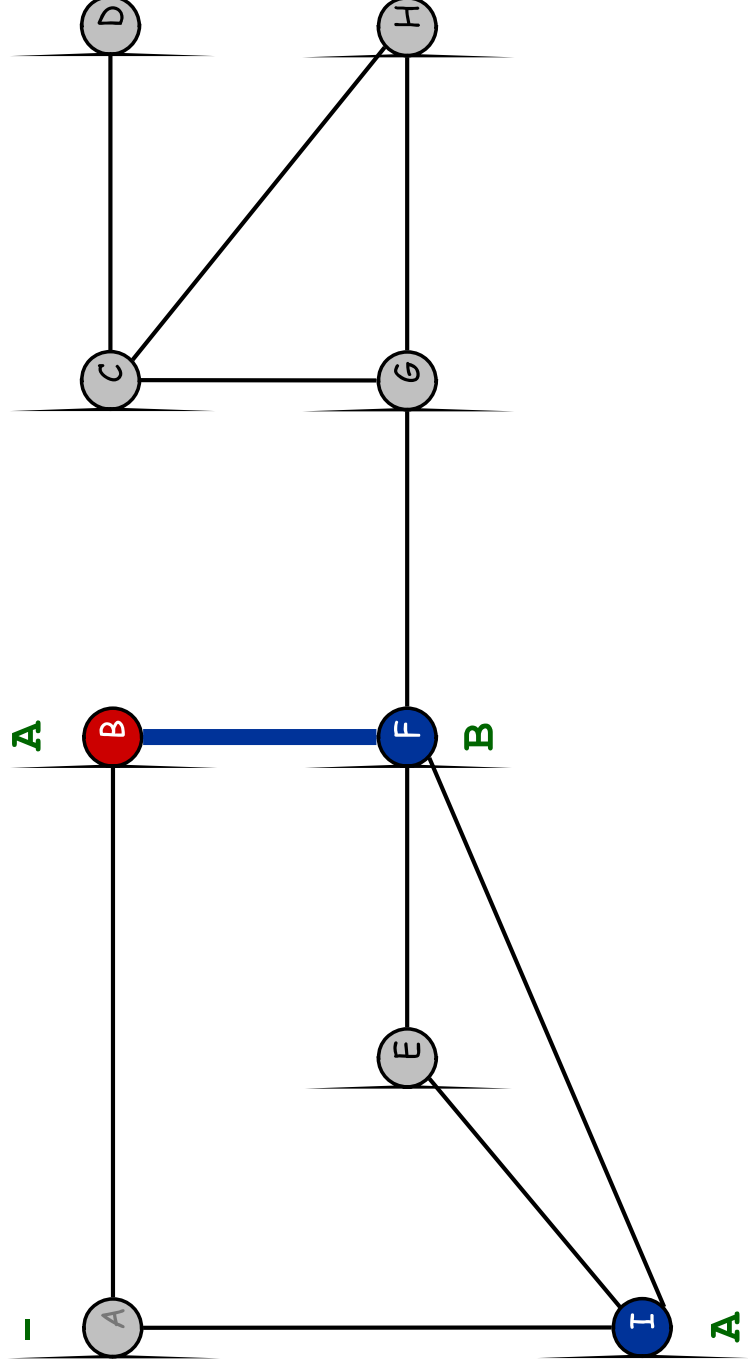
visit neighbors of B

front I

FIFO Queue

A B

Breadth First Search



F discovered

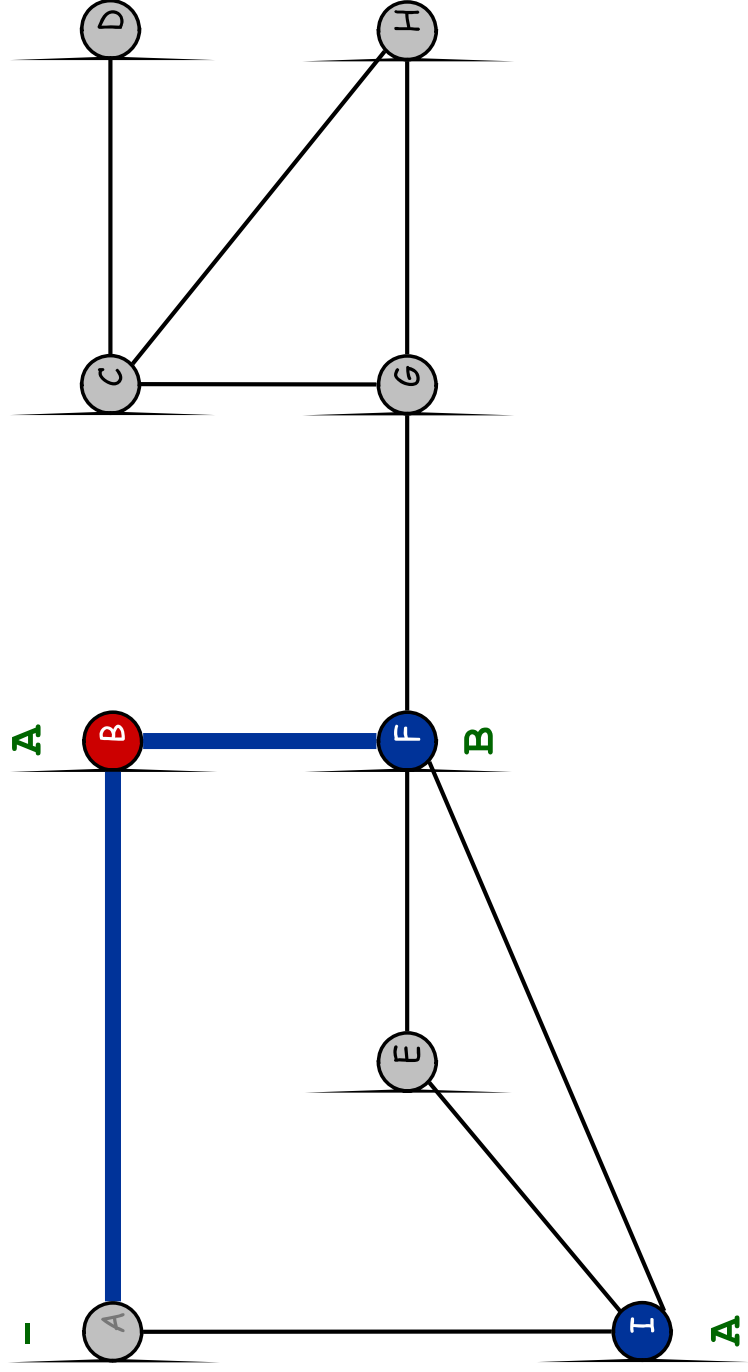
front




FIFO Queue

BA

Breadth First Search



visit neighbors of B

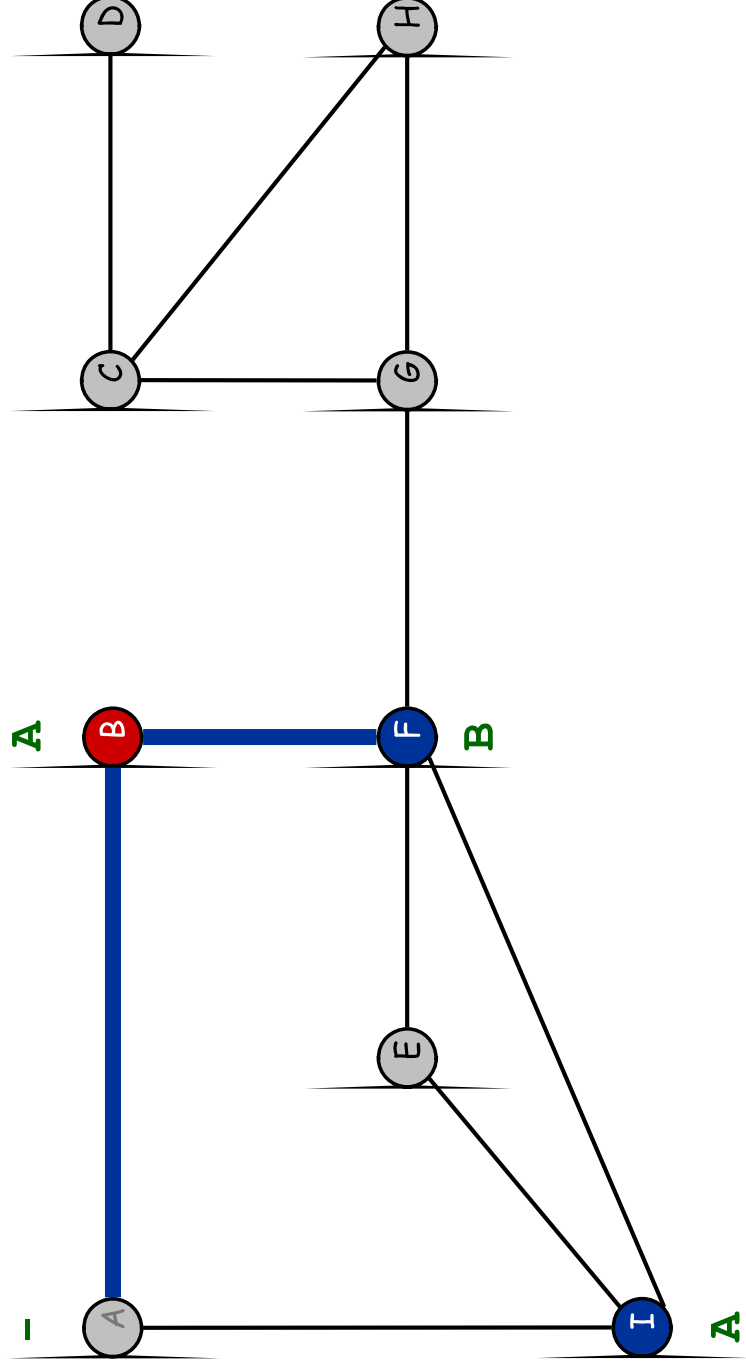
front

I F

FIFO Queue

A B

Breadth First Search



A already discovered

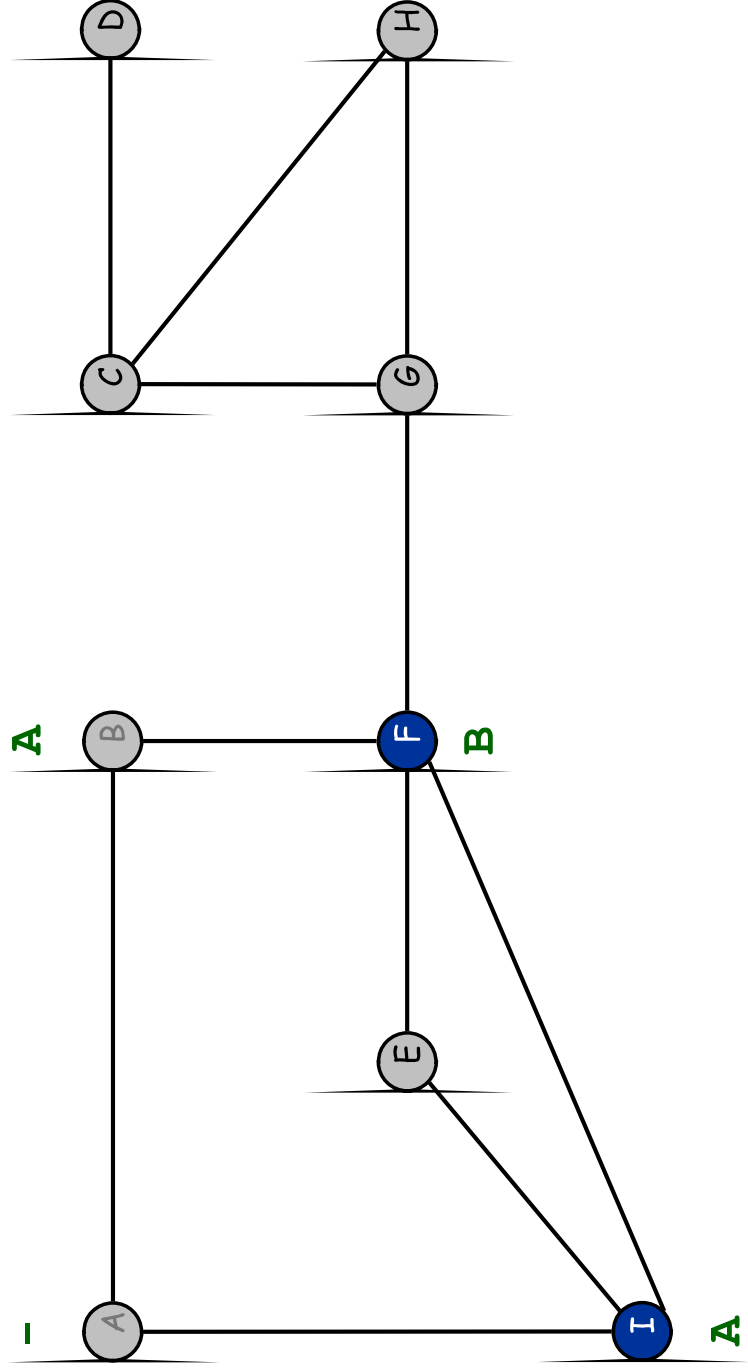
front




FIFO Queue

BA

Breadth First Search



finished with B

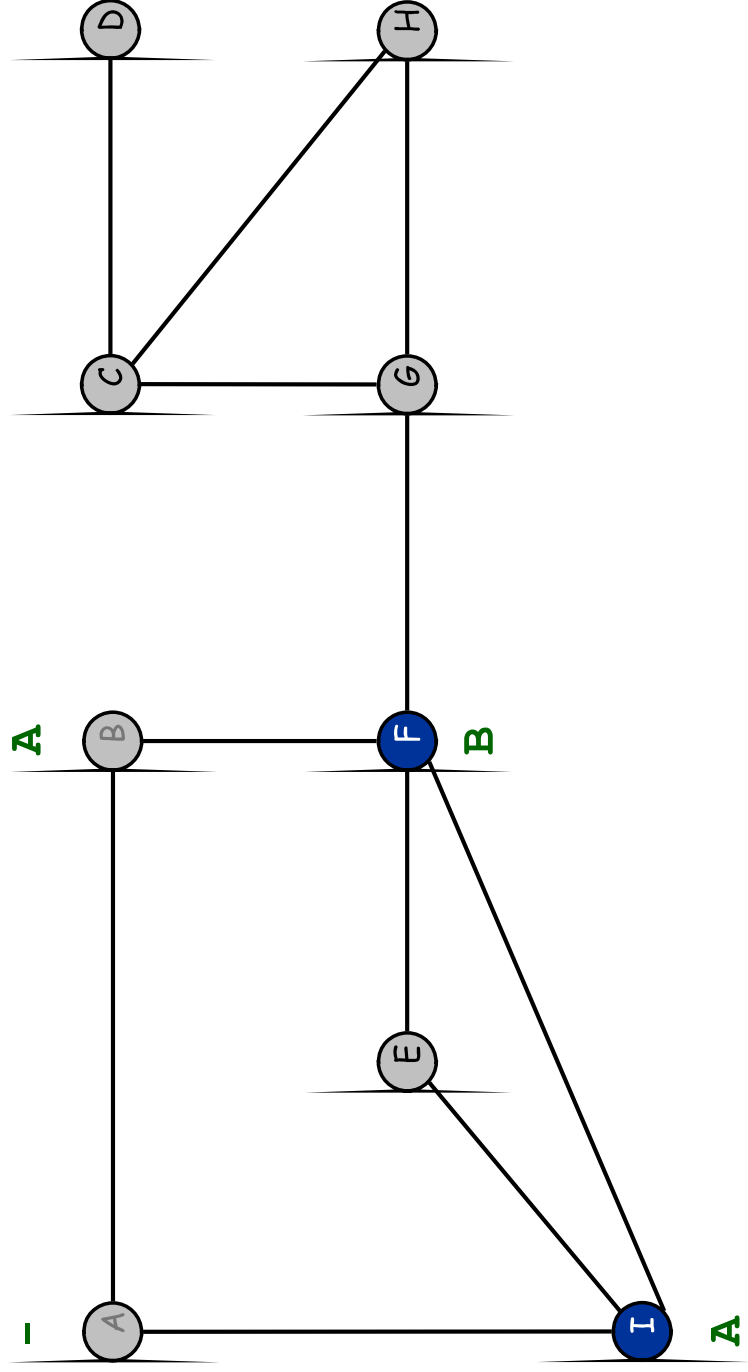
front

I F

FIFO Queue

A B

Breadth First Search



dequeue next vertex

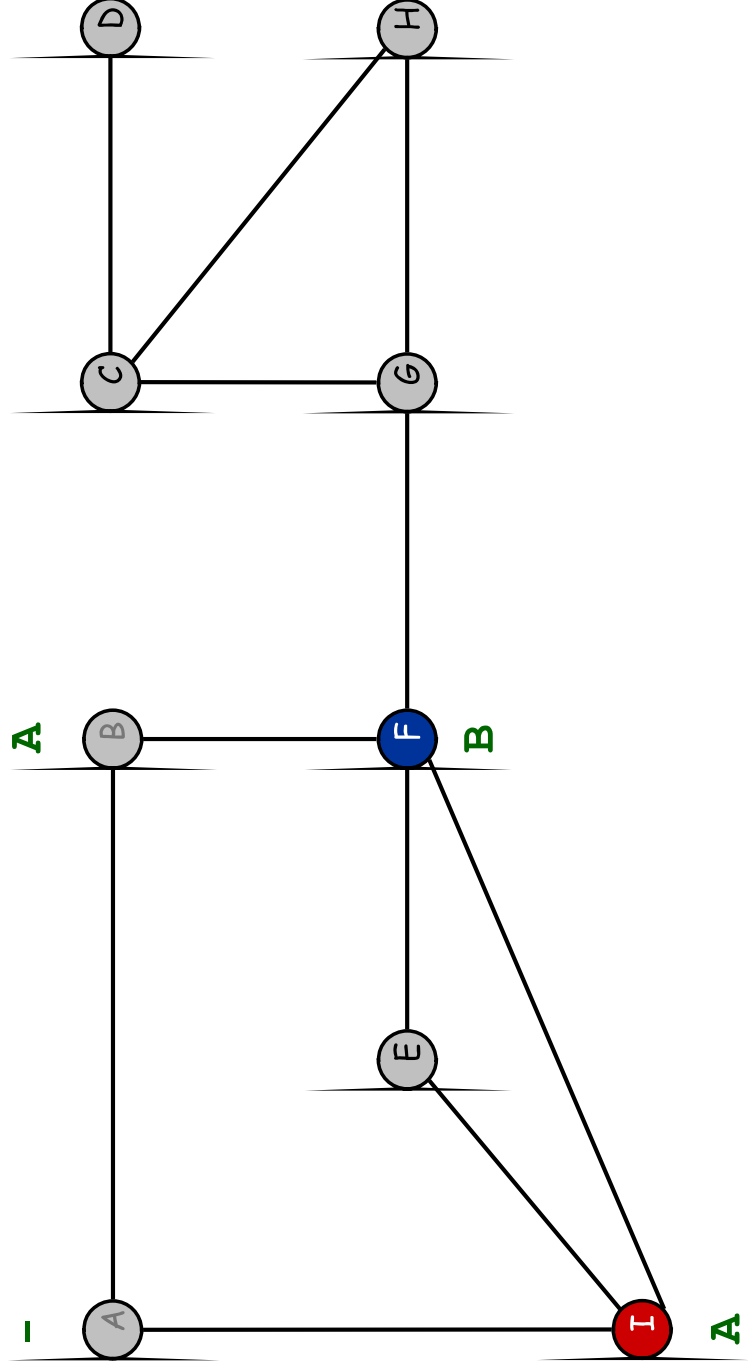
front

I F

FIFO Queue

A B I

Breadth First Search



visit neighbors of I

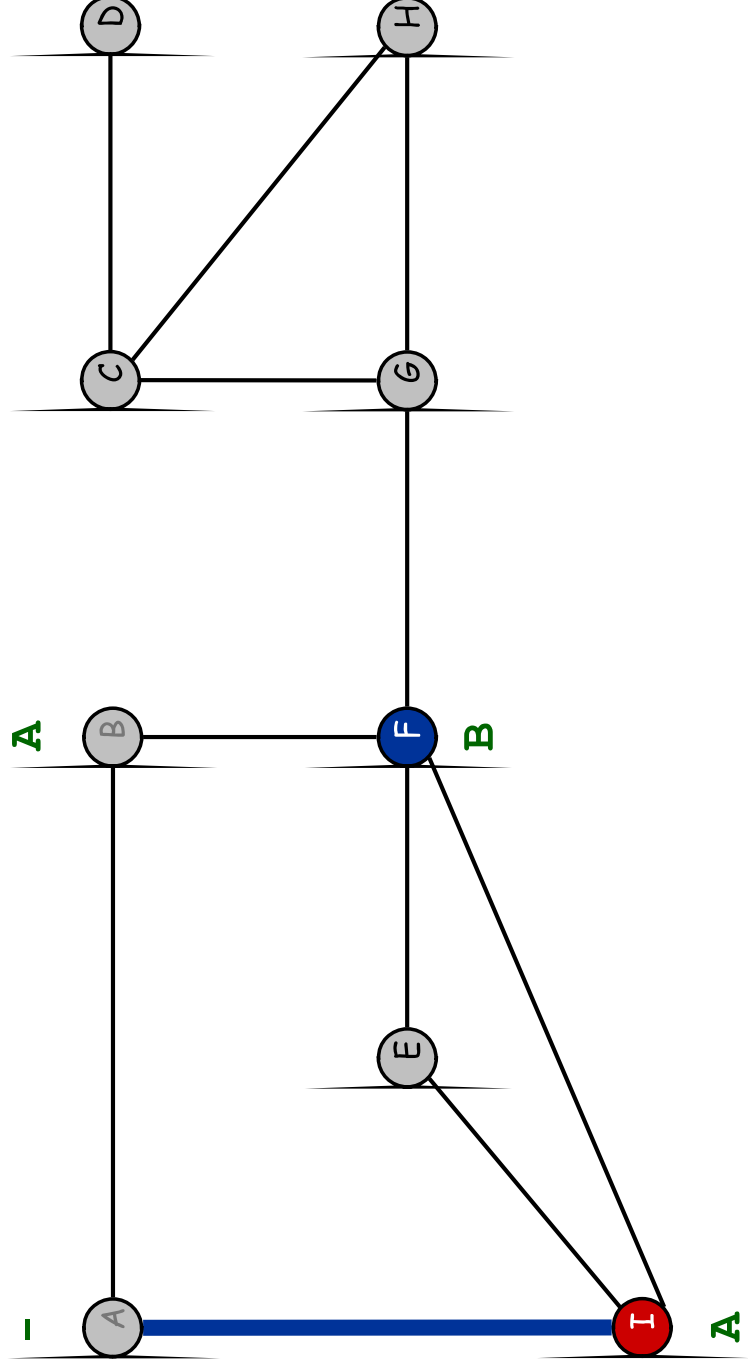
front

F

FIFO Queue

A B I

Breadth First Search



visit neighbors of I

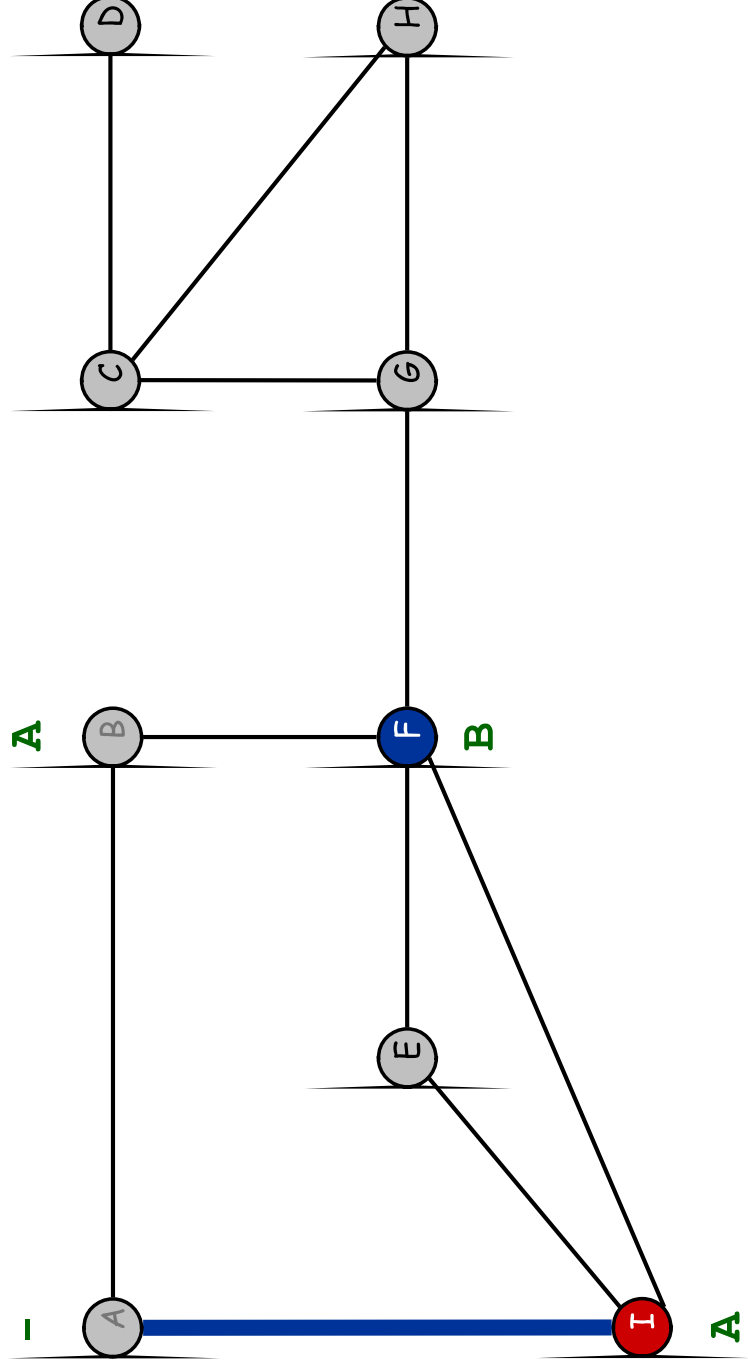
front

F

FIFO Queue

A B I

Breadth First Search



A already discovered

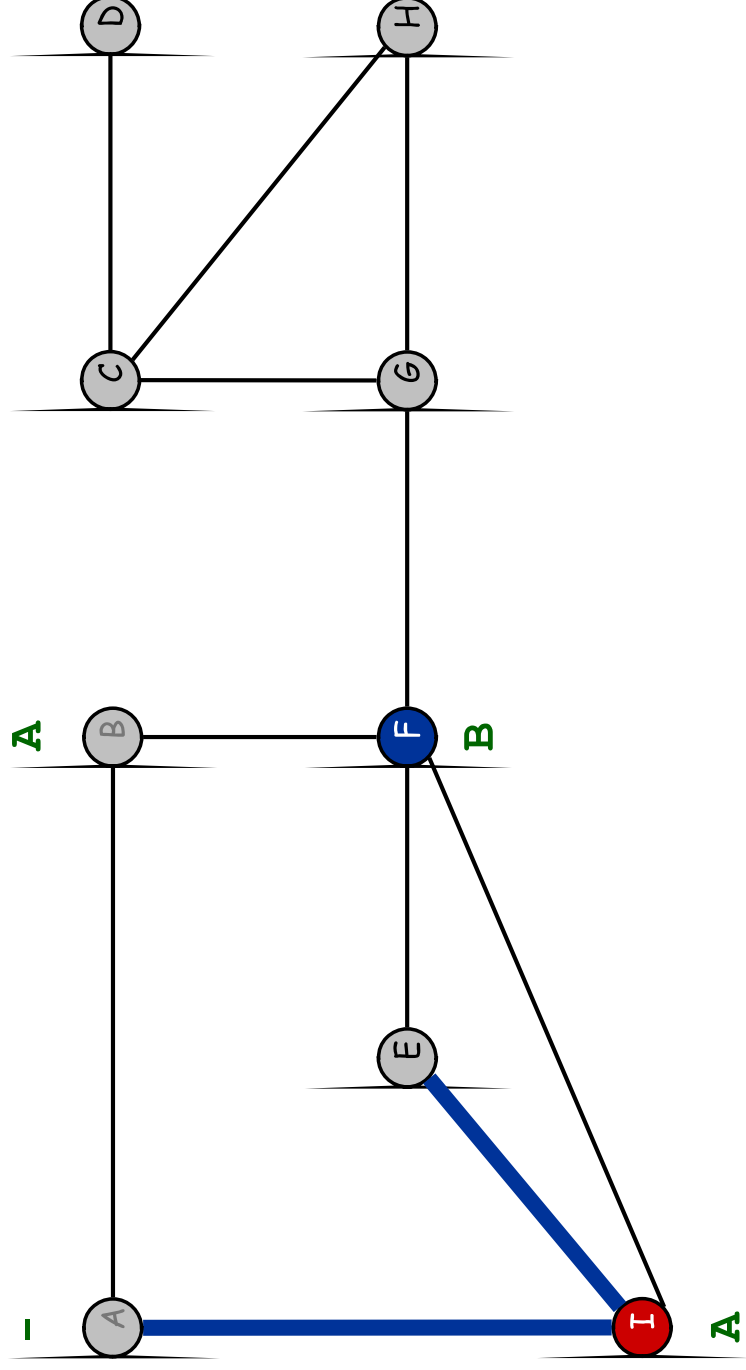
front

F

FIFO Queue

A B I

Breadth First Search



visit neighbors of I

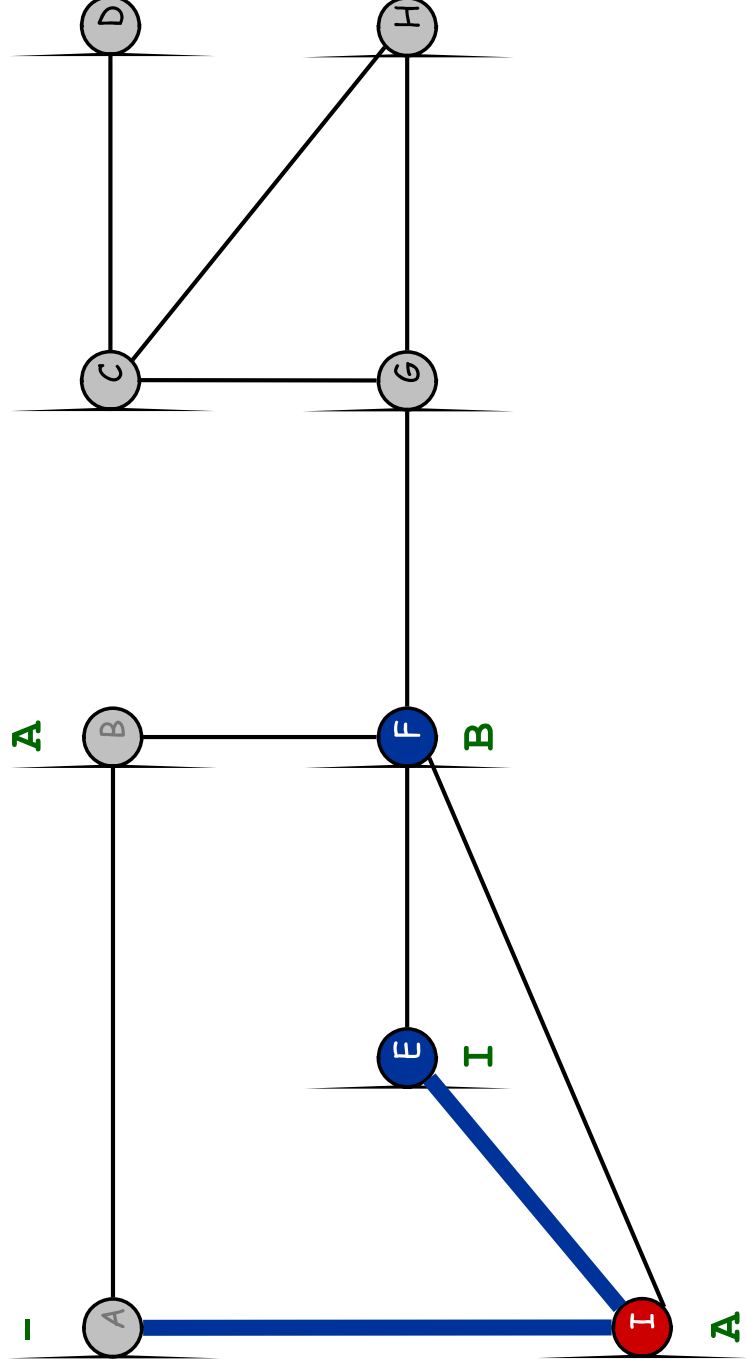
front

၂၅

FIFO Queue

IB A

Breadth First Search



E discovered

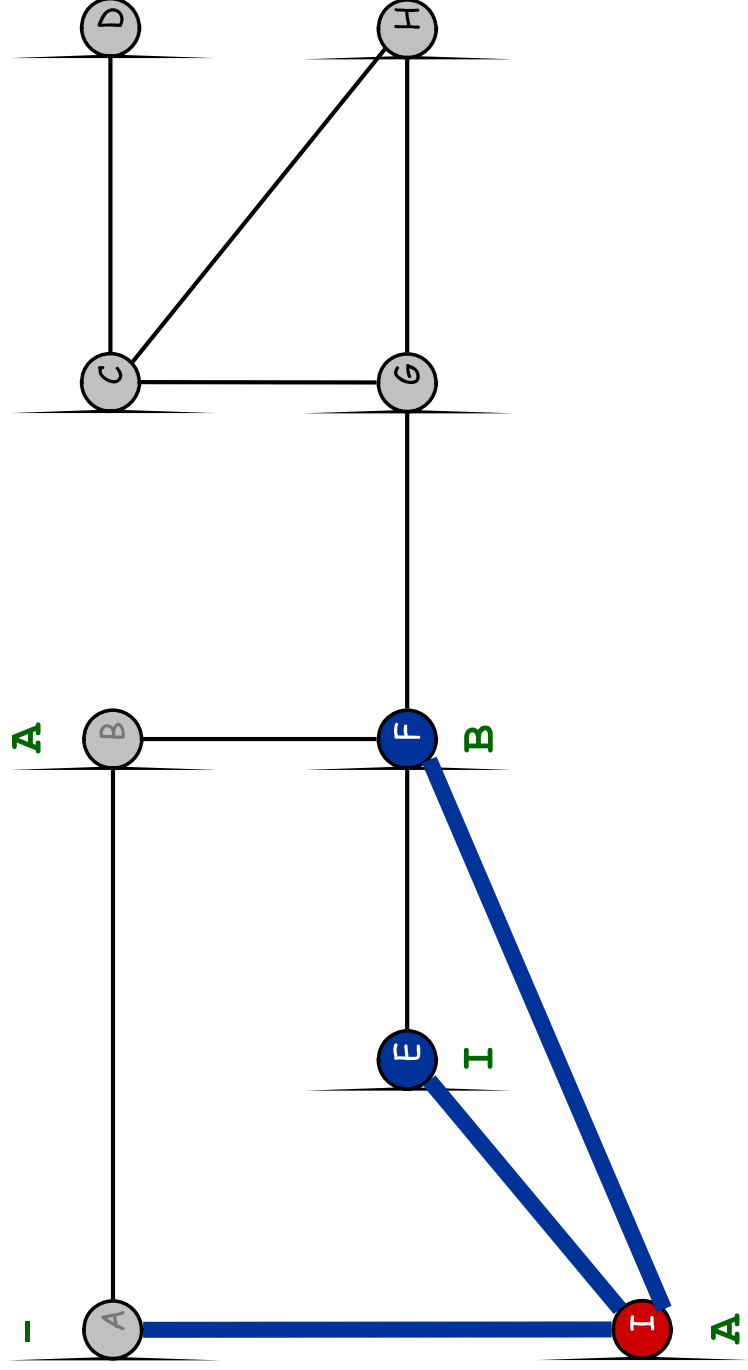
front

四
 五

FIFO Queue

IBA

Breadth First Search

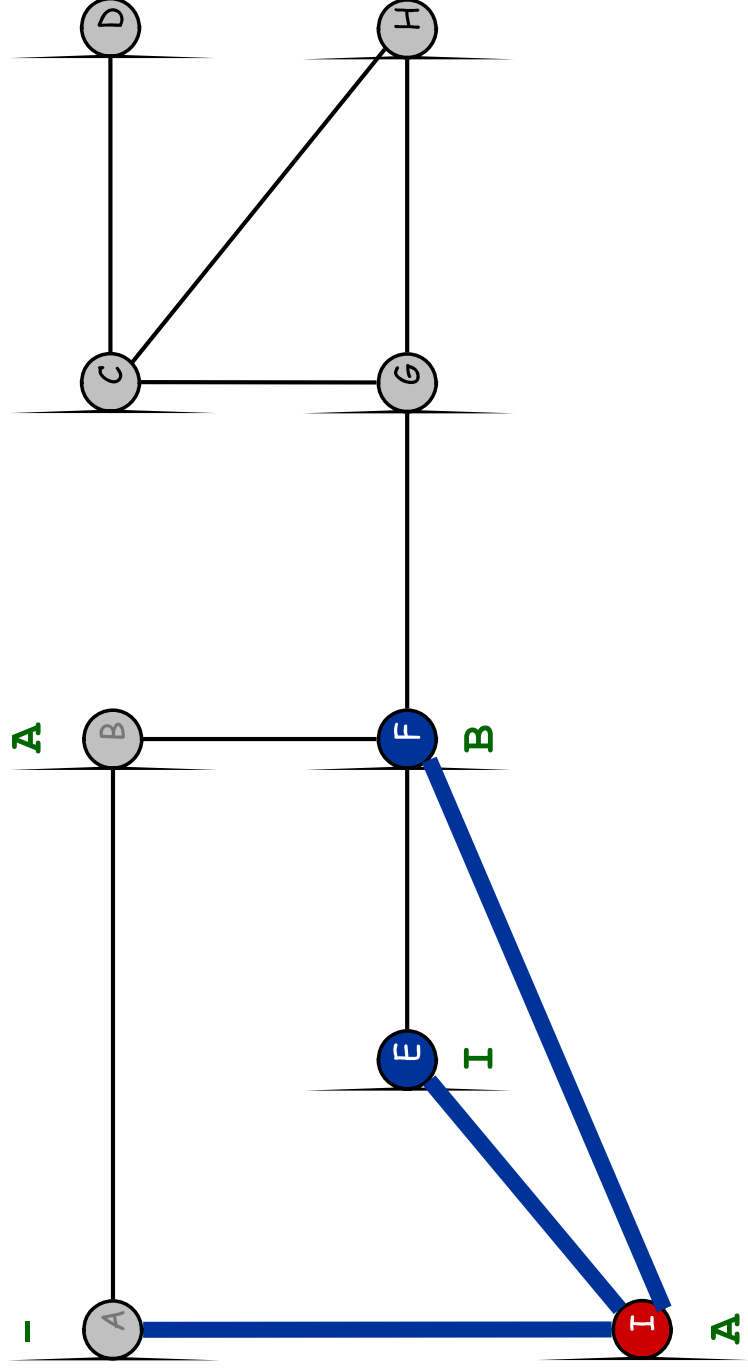


visit neighbors of I front F E

FIFO Queue

A B I

Breadth First Search



F already discovered

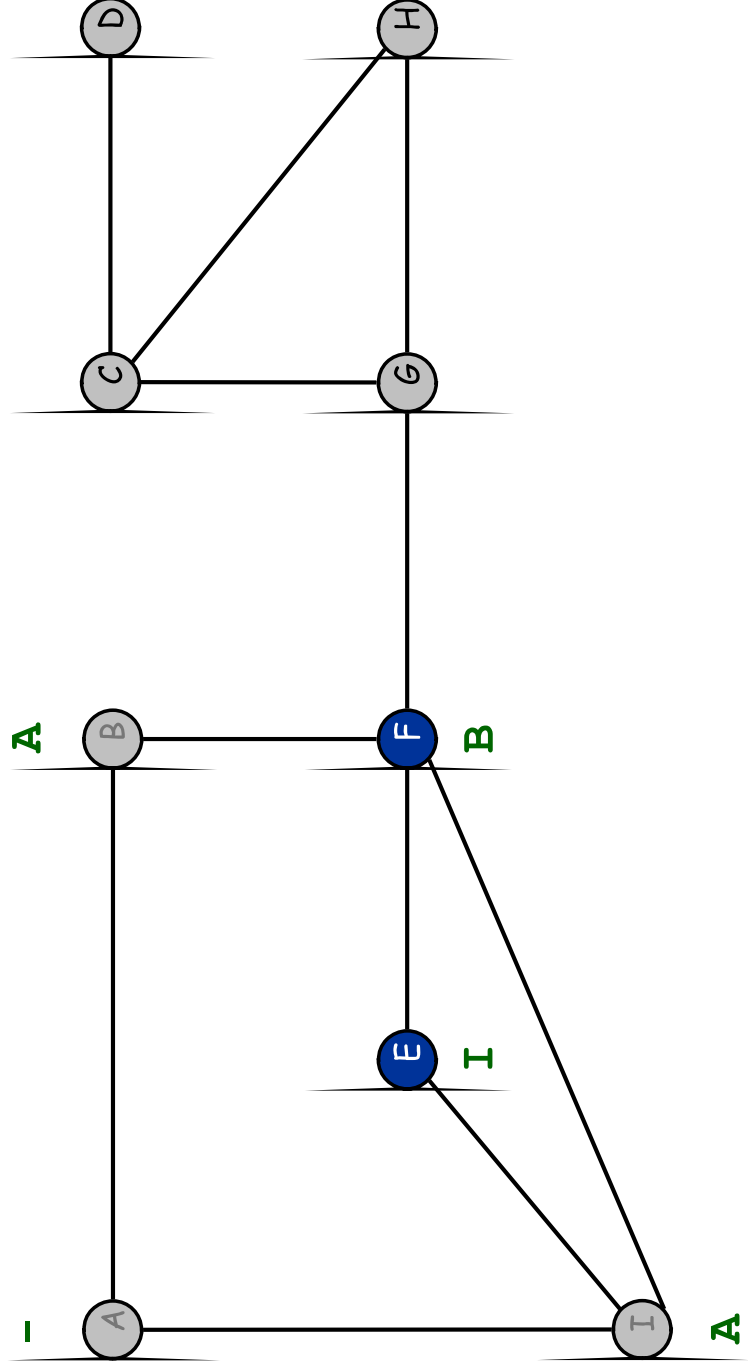
front

~~F~~ E

FIFO Queue

A B I

Breadth First Search

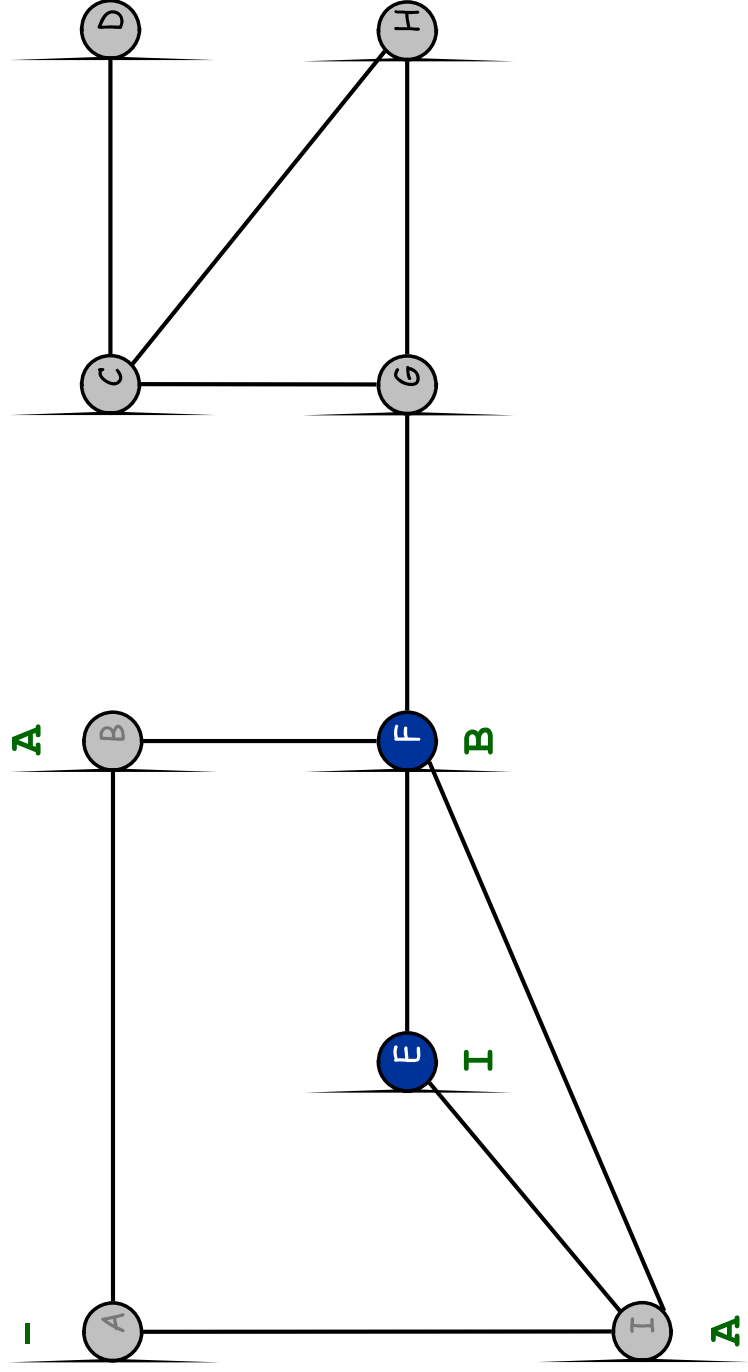


I finished front F E

FIFO Queue

A B I

Breadth First Search

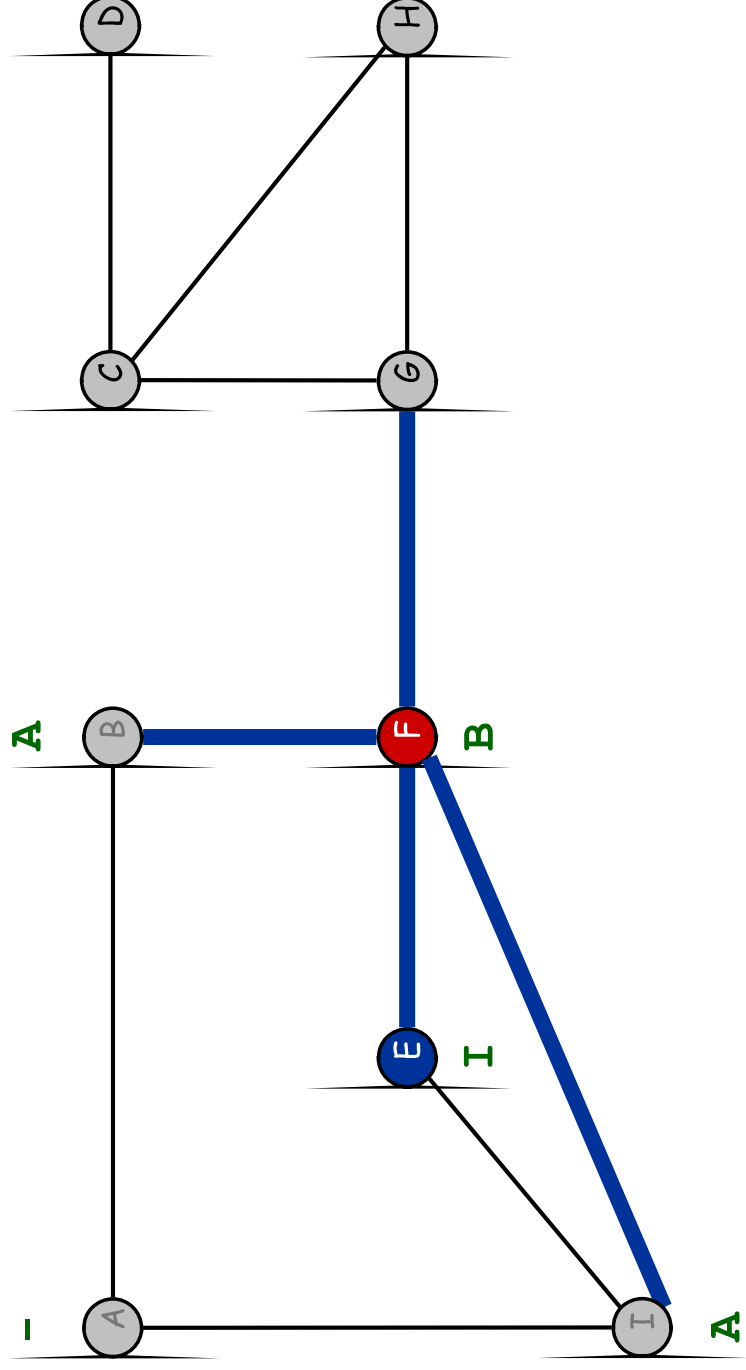


dequeue next vertex	front	F E
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FIFO Queue

A B I F

Breadth First Search



visit neighbors of F

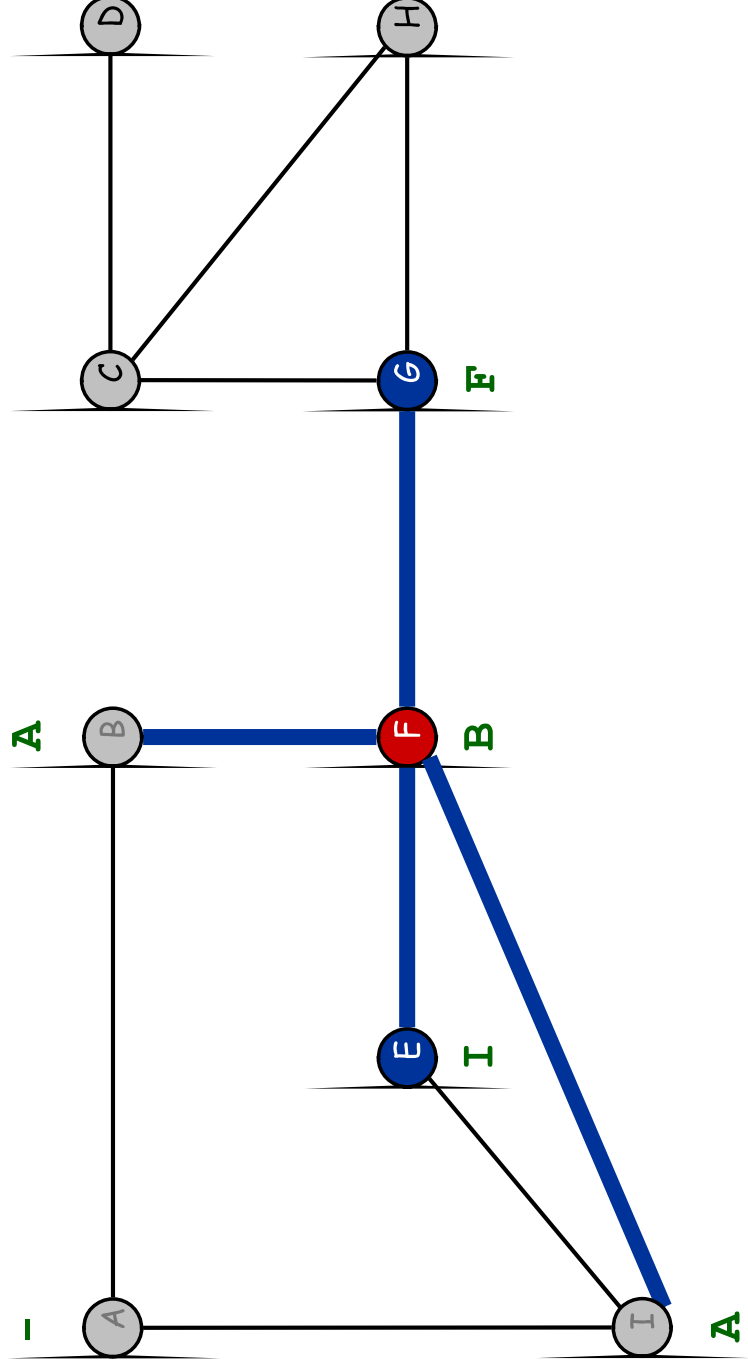
front

四

FIFO Queue

ABLE

Breadth First Search



G discovered

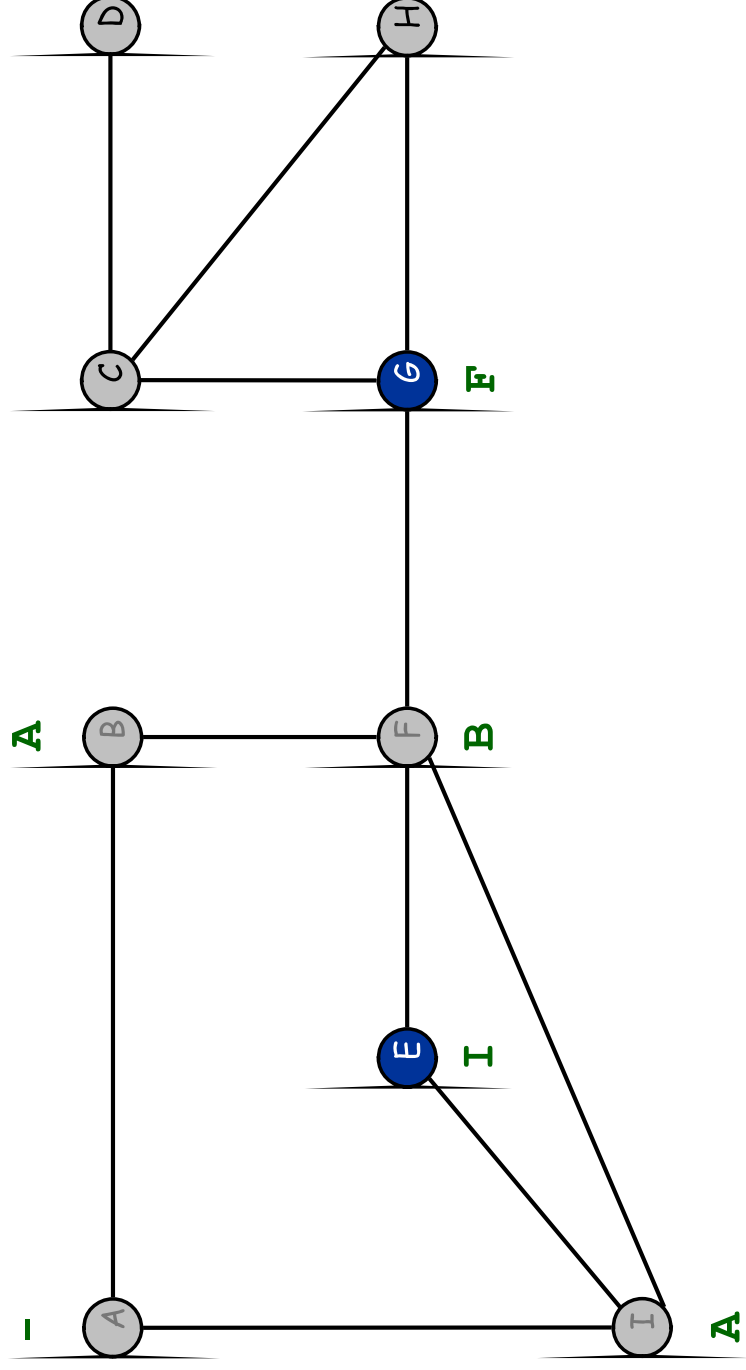
front

E G

FIFO Queue

A B I F

Breadth First Search



F finished

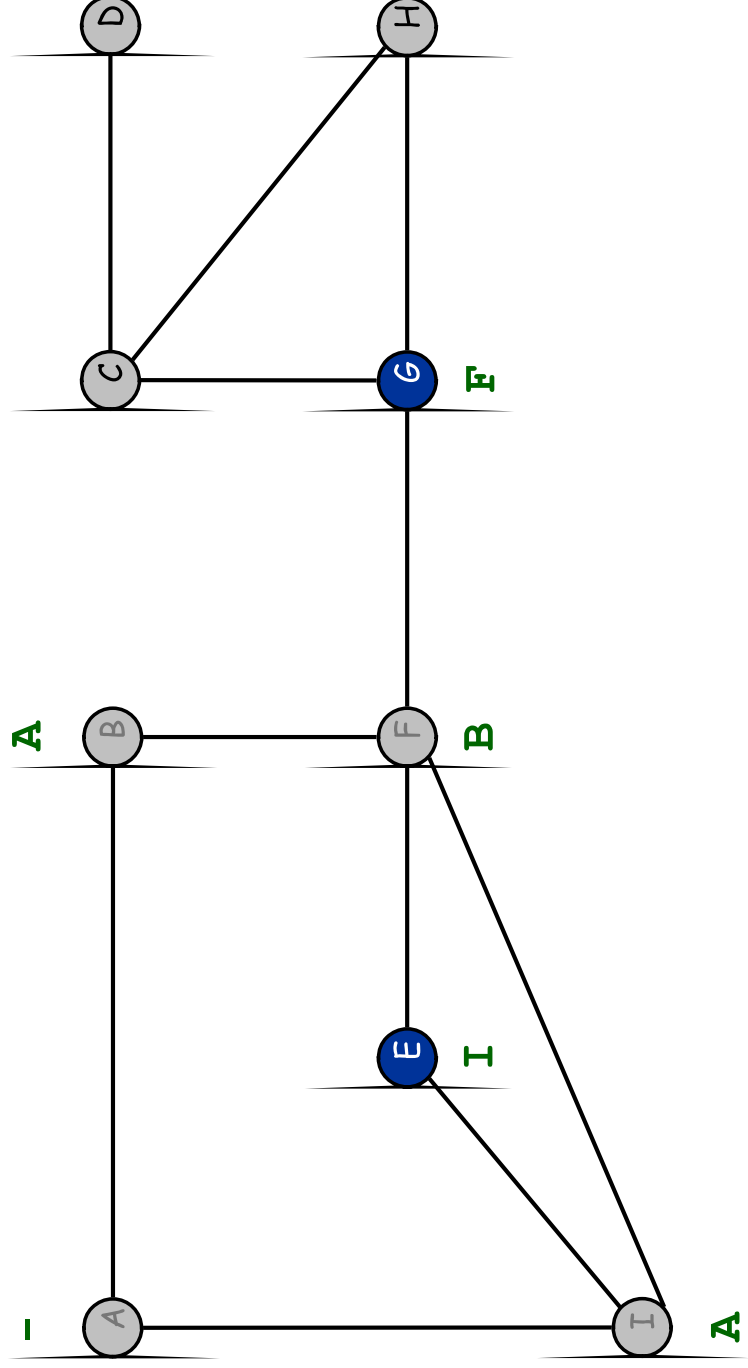
front

U
H

FIFO Queue

ABLE

Breadth First Search



dequeue next vertex

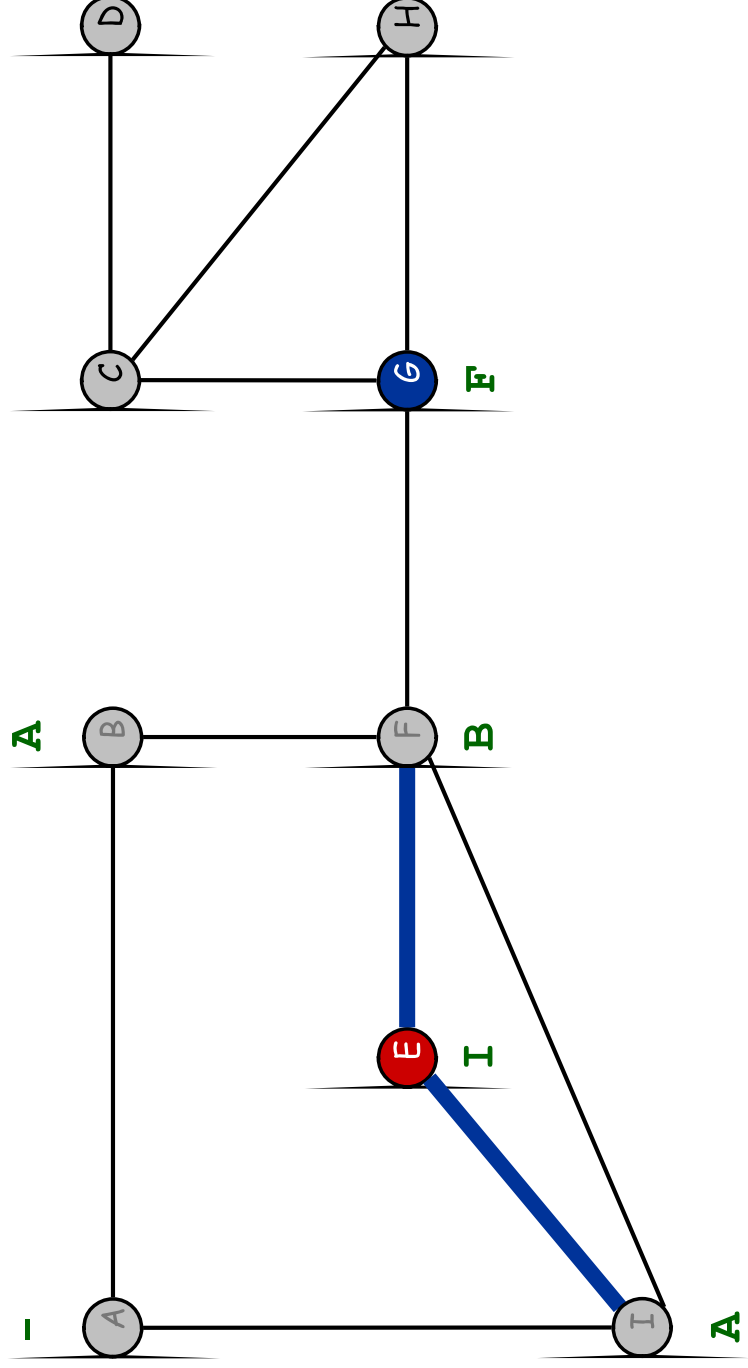
front

E G

FIFO Queue

A B I F E

Breadth First Search



visit neighbors of E

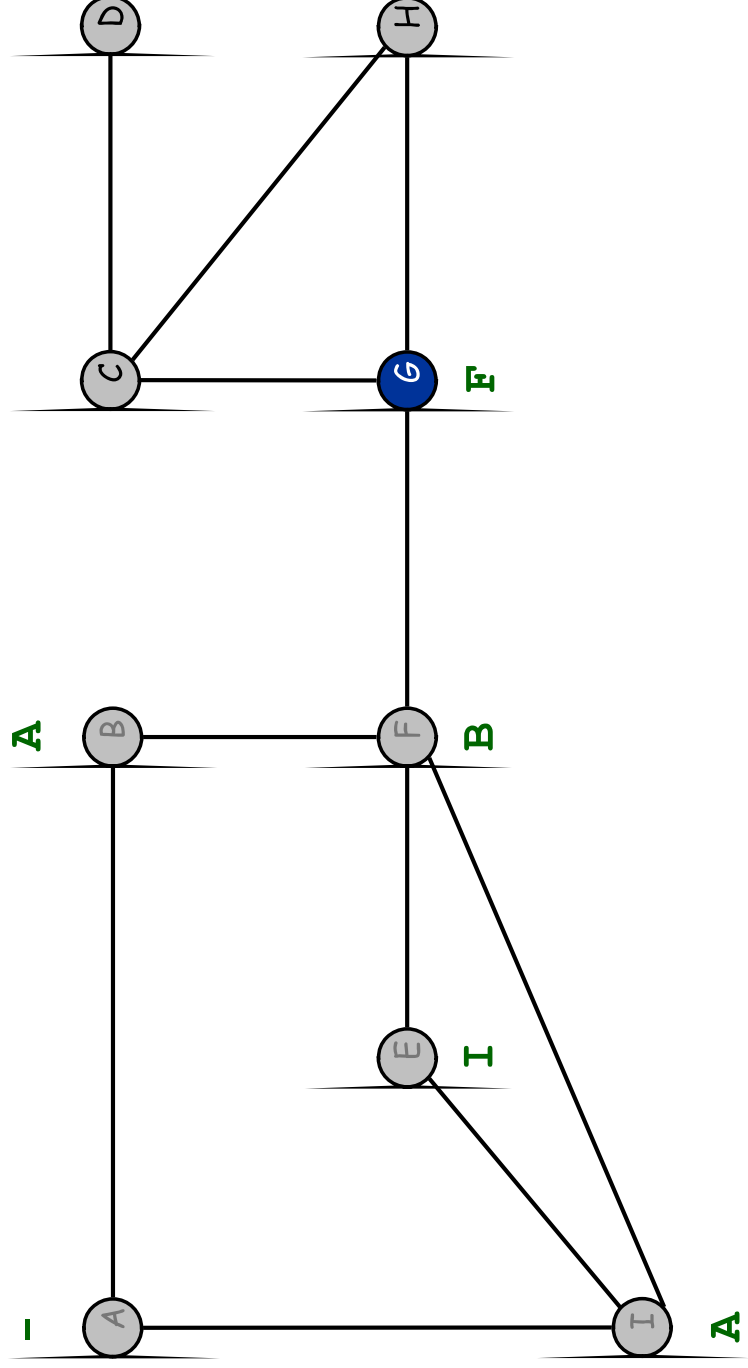
front

G

FIFO Queue

A B I F E

Breadth First Search



E finished

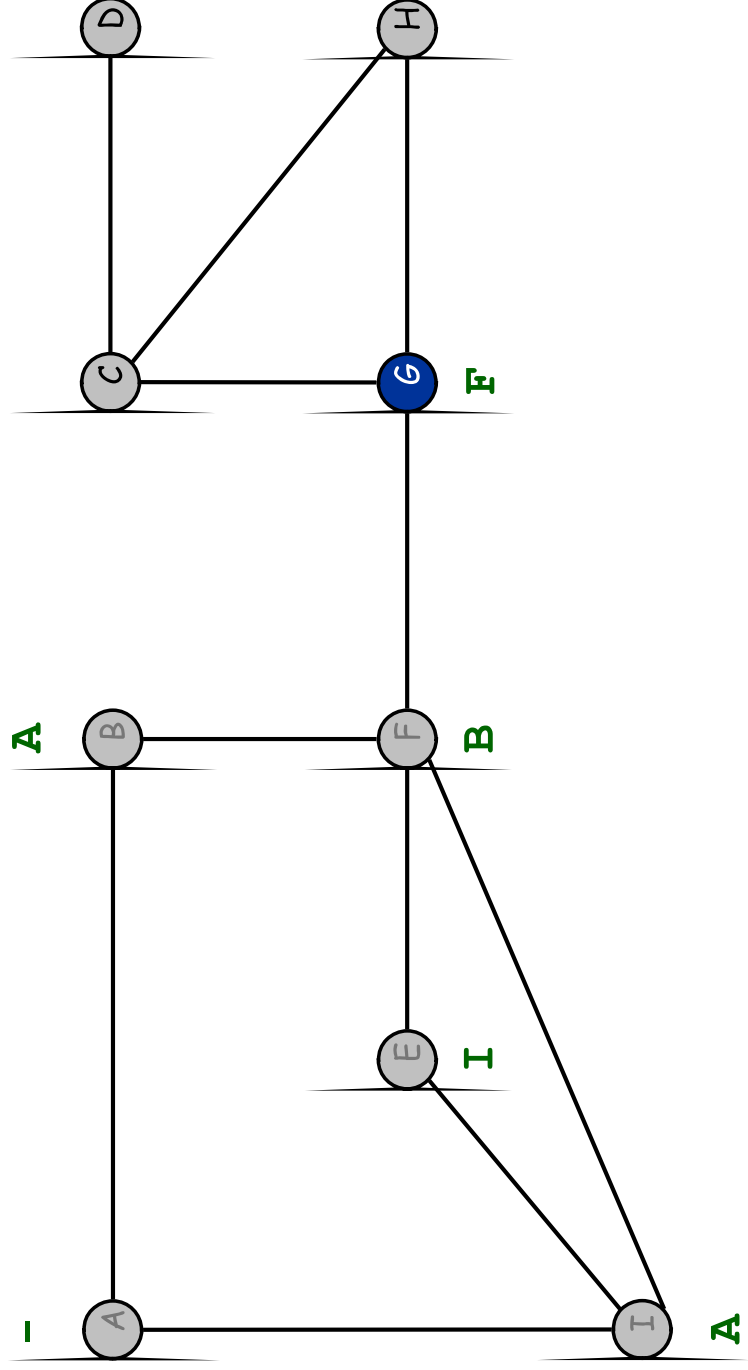
front

G

FIFO Queue

A B I F E

Breadth First Search



dequeue next vertex

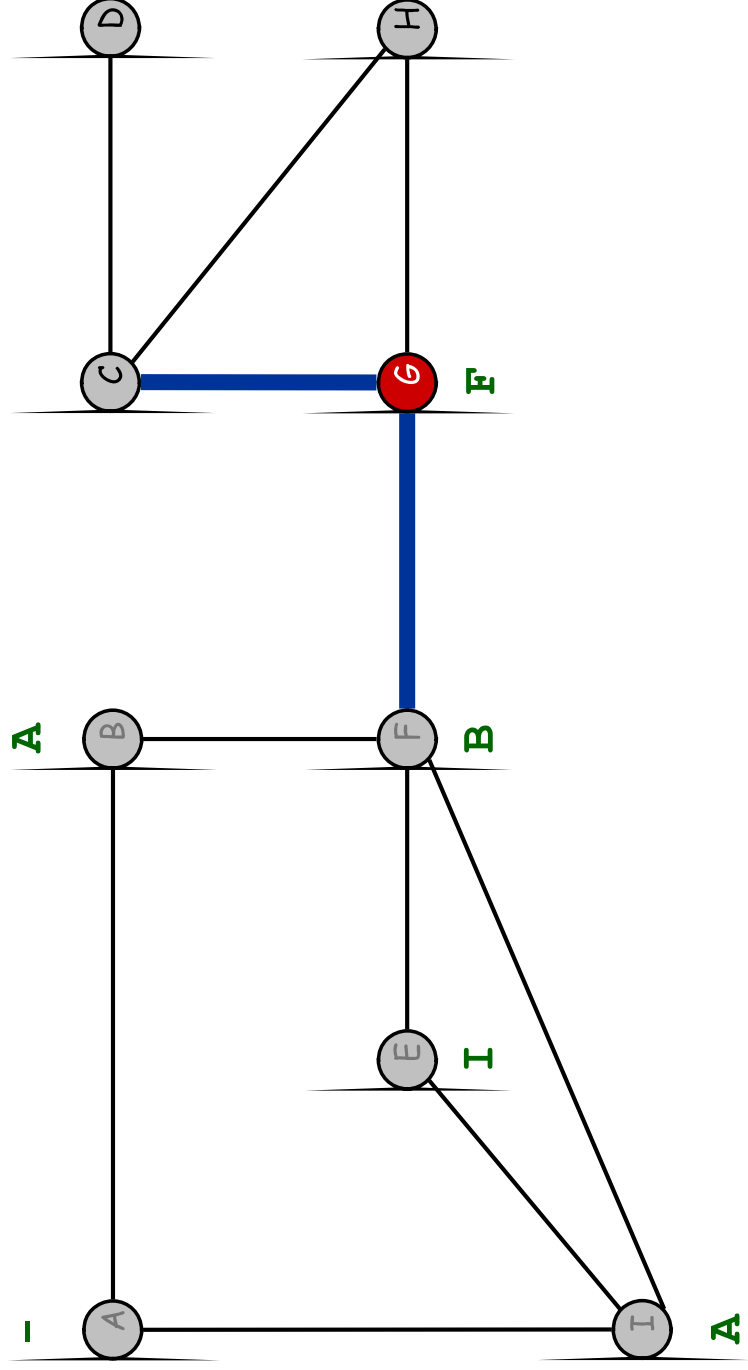
front

G

FIFO Queue

A B I F E G

Breadth First Search



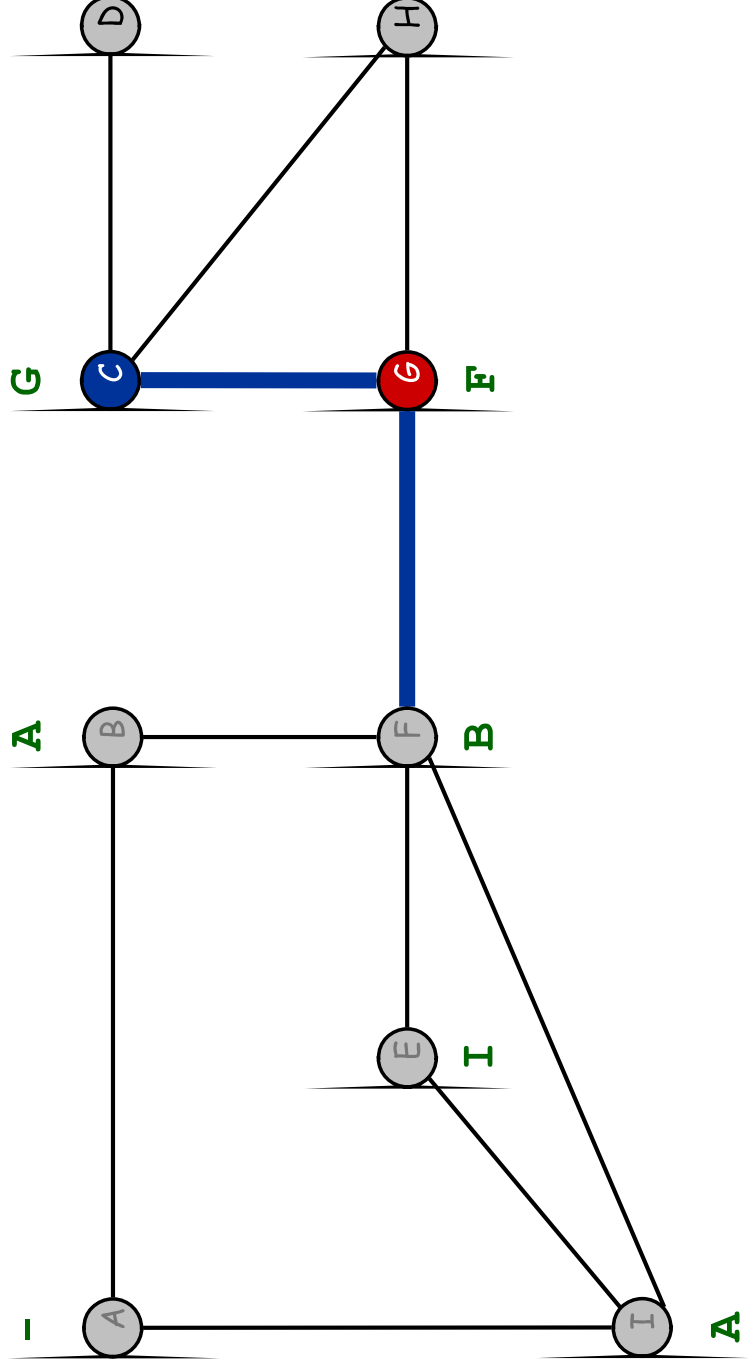
visit neighbors of G

front

FIFO Queue

A B I F E G

Breadth First Search



C discovered

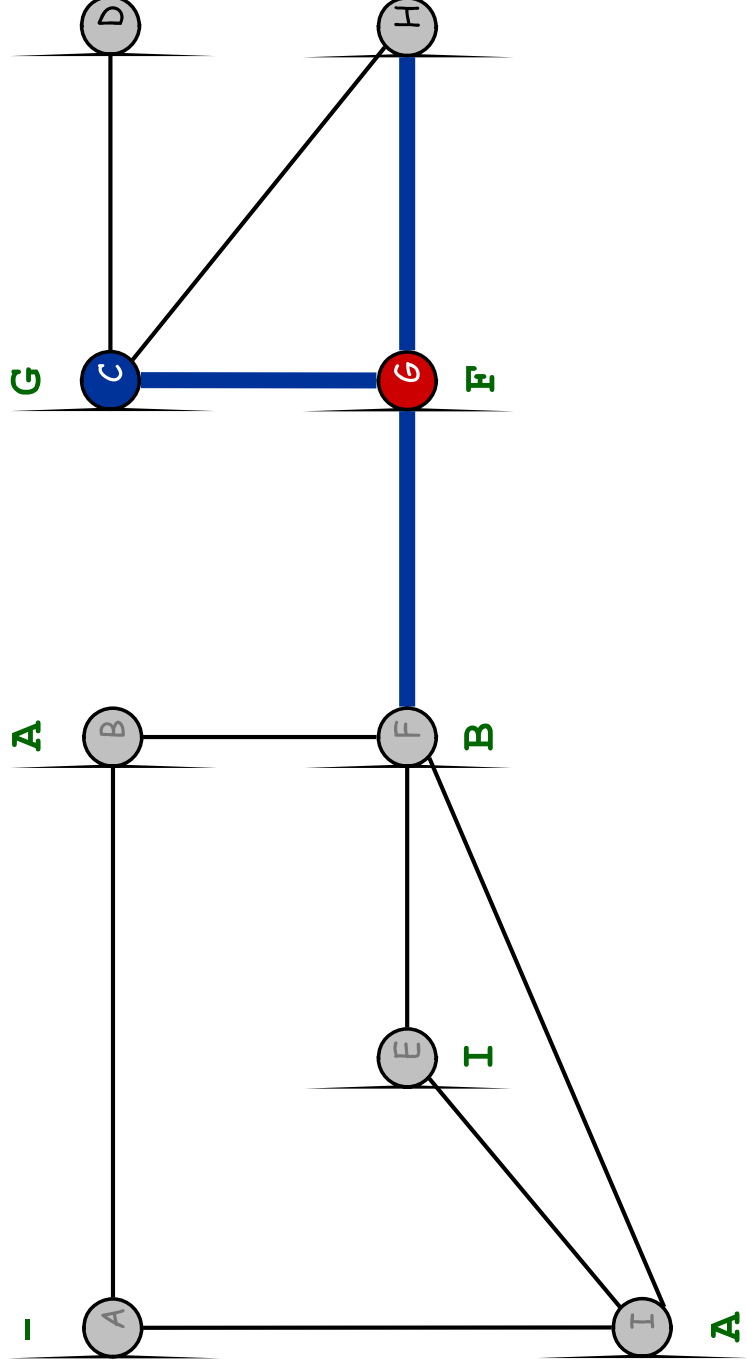
front

U

FIFO Queue

ABIFEG

Breadth First Search



visit neighbors of G

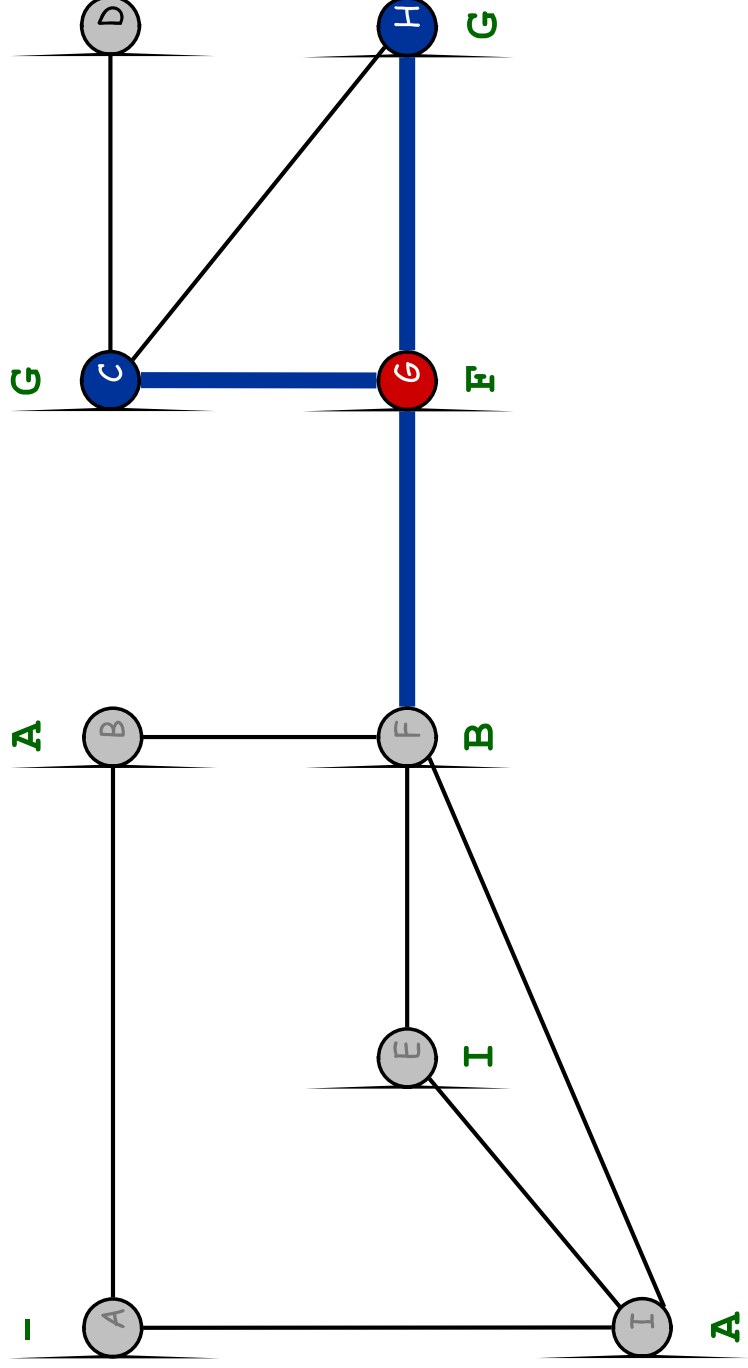
front

U

FIFO Queue

ABIFEG

Breadth First Search



H discovered

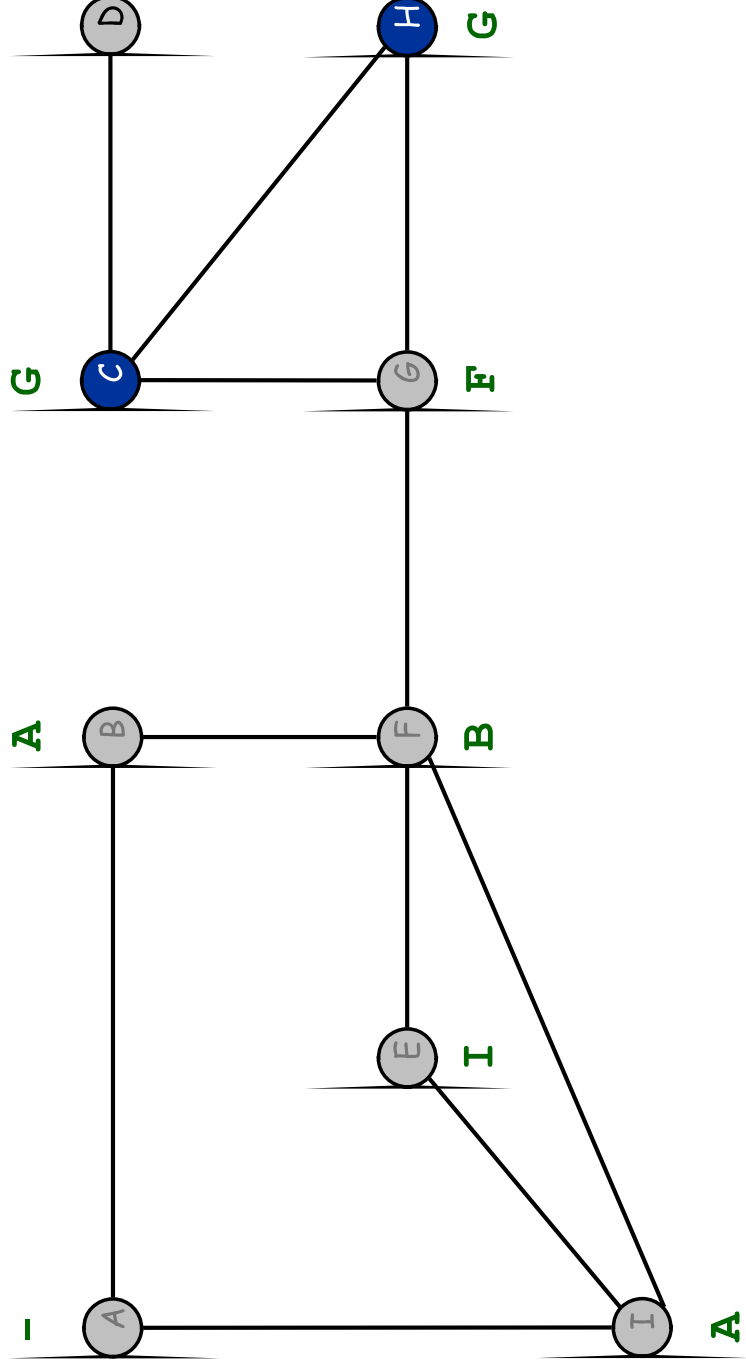
front

C H

FIFO Queue

A B I F E G

Breadth First Search



G finished

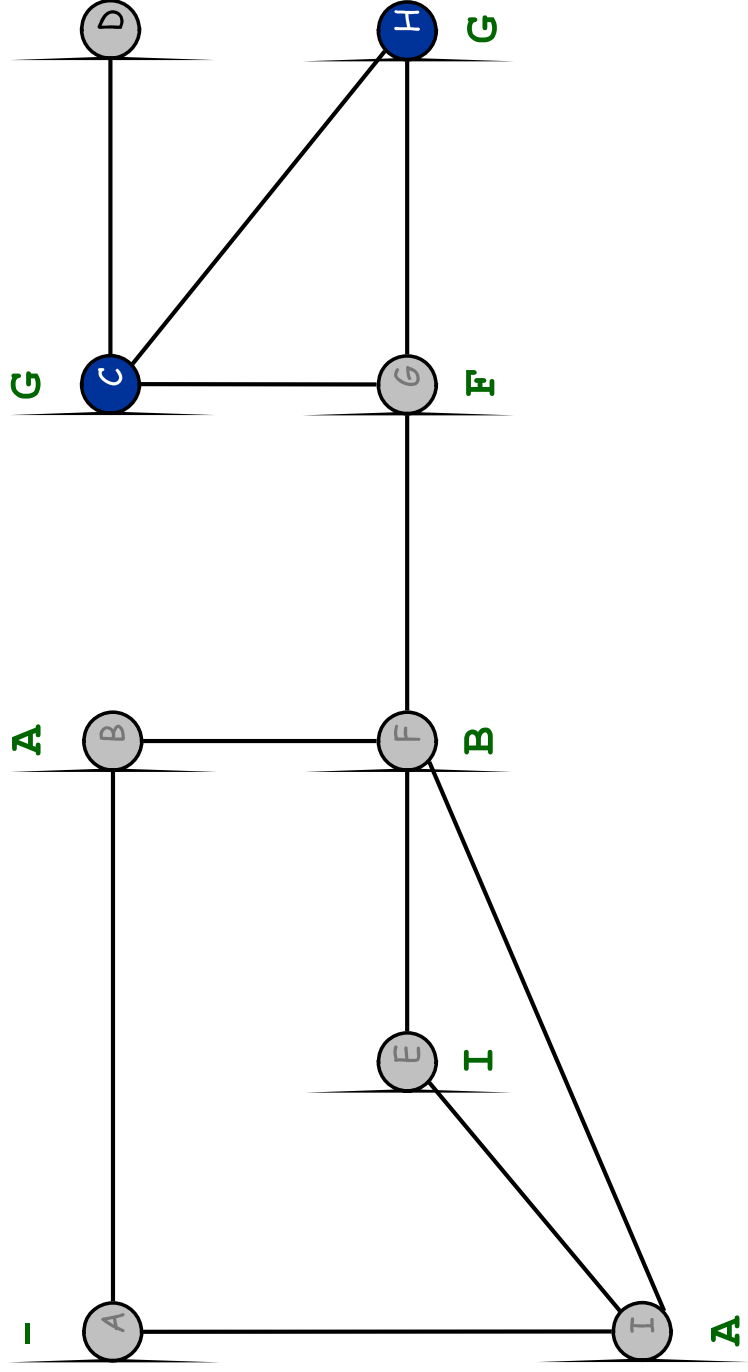
front

U
H

FIFO Queue

ABIFEG

Breadth First Search



dequeue next vertex

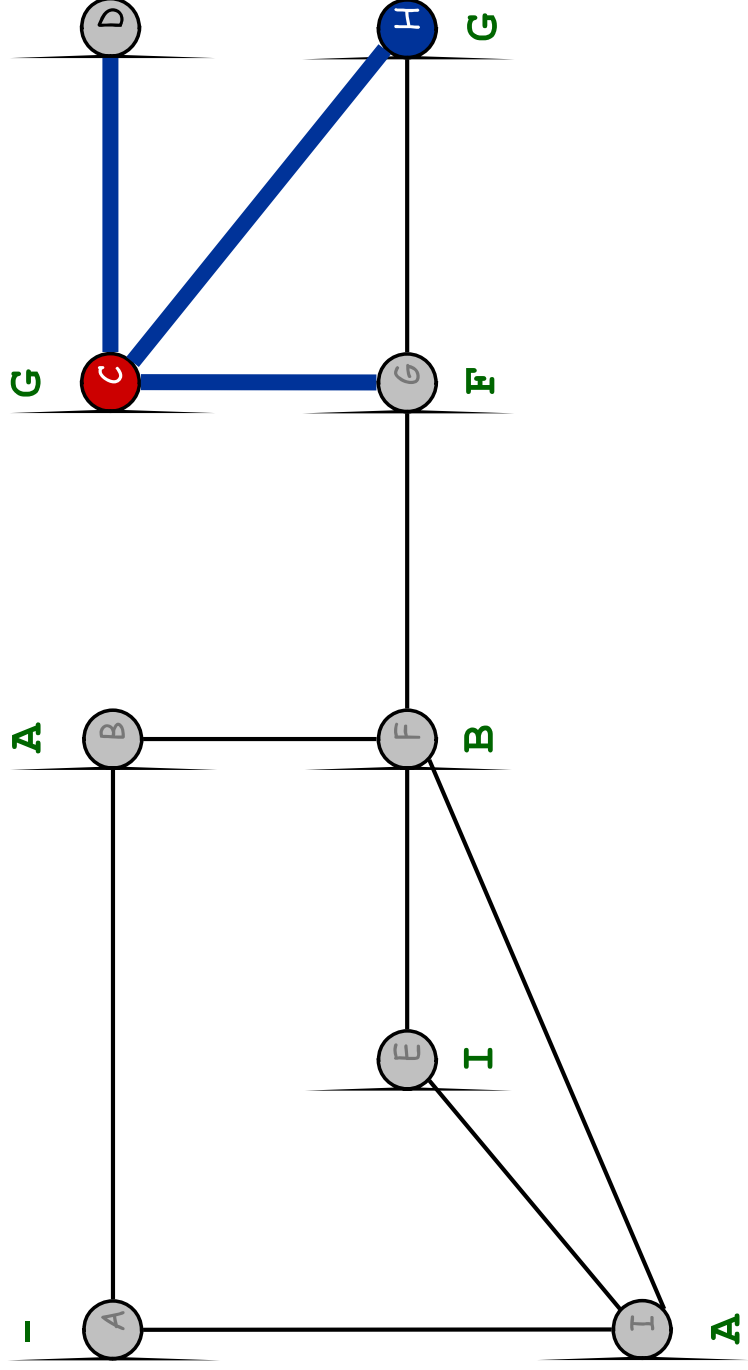
front

C H

FIFO Queue

A B I F E G C

Breadth First Search



visit neighbors of C

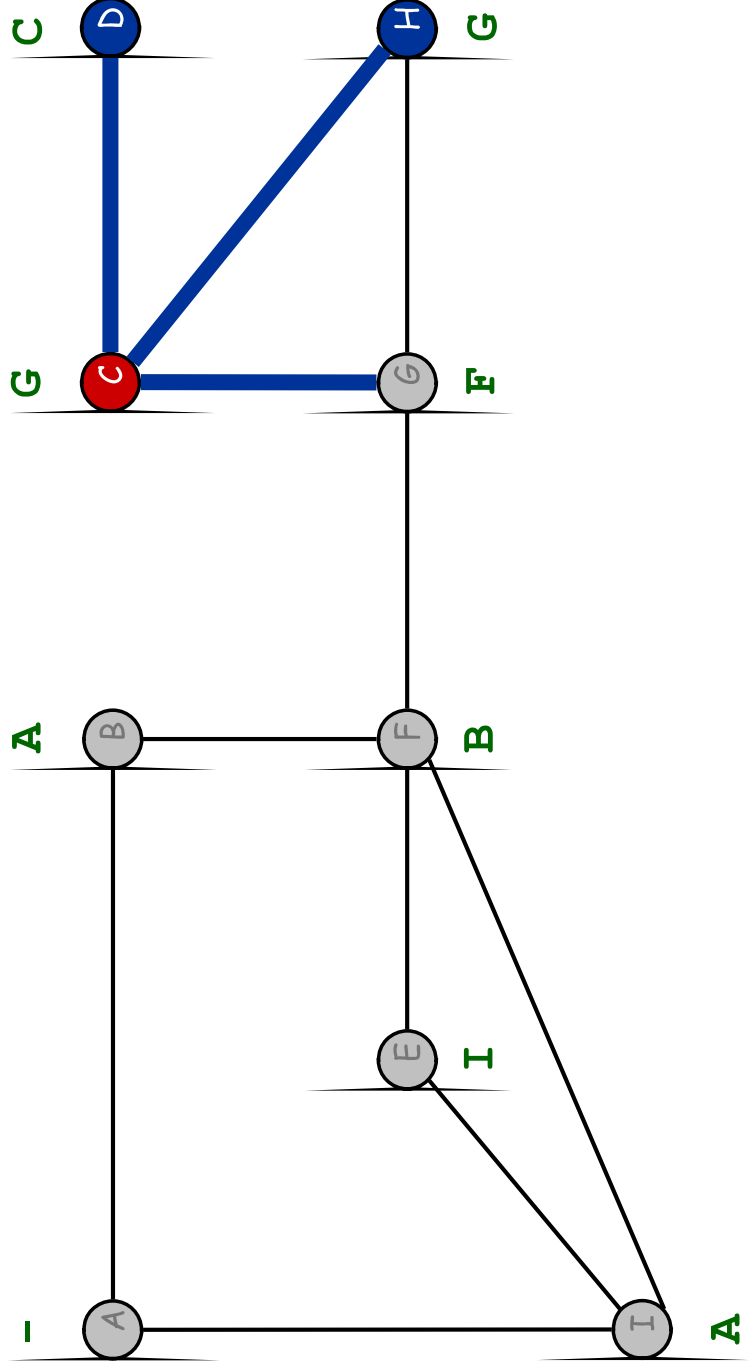
front

H

FIFO Queue

A B I F E G C

Breadth First Search



D discovered

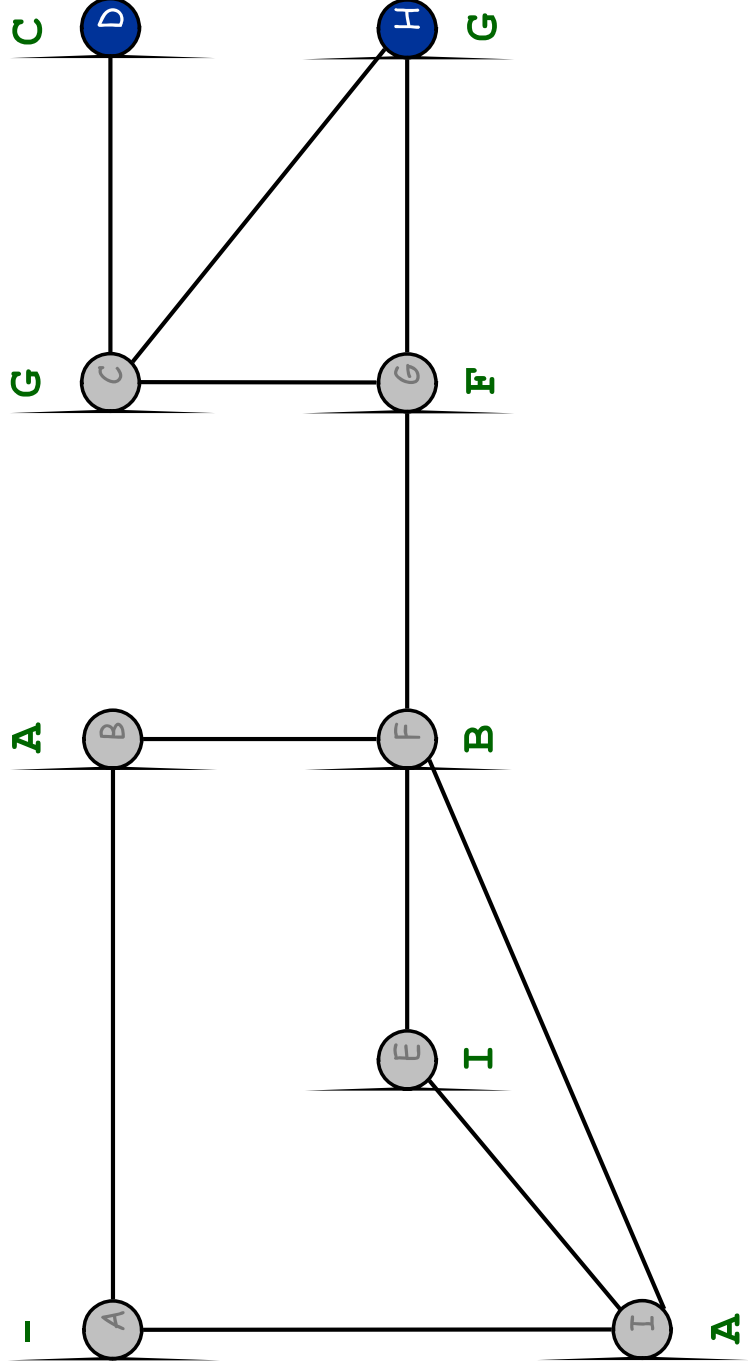
front

H D

FIFO Queue

A B I F E G C

Breadth First Search



C finished

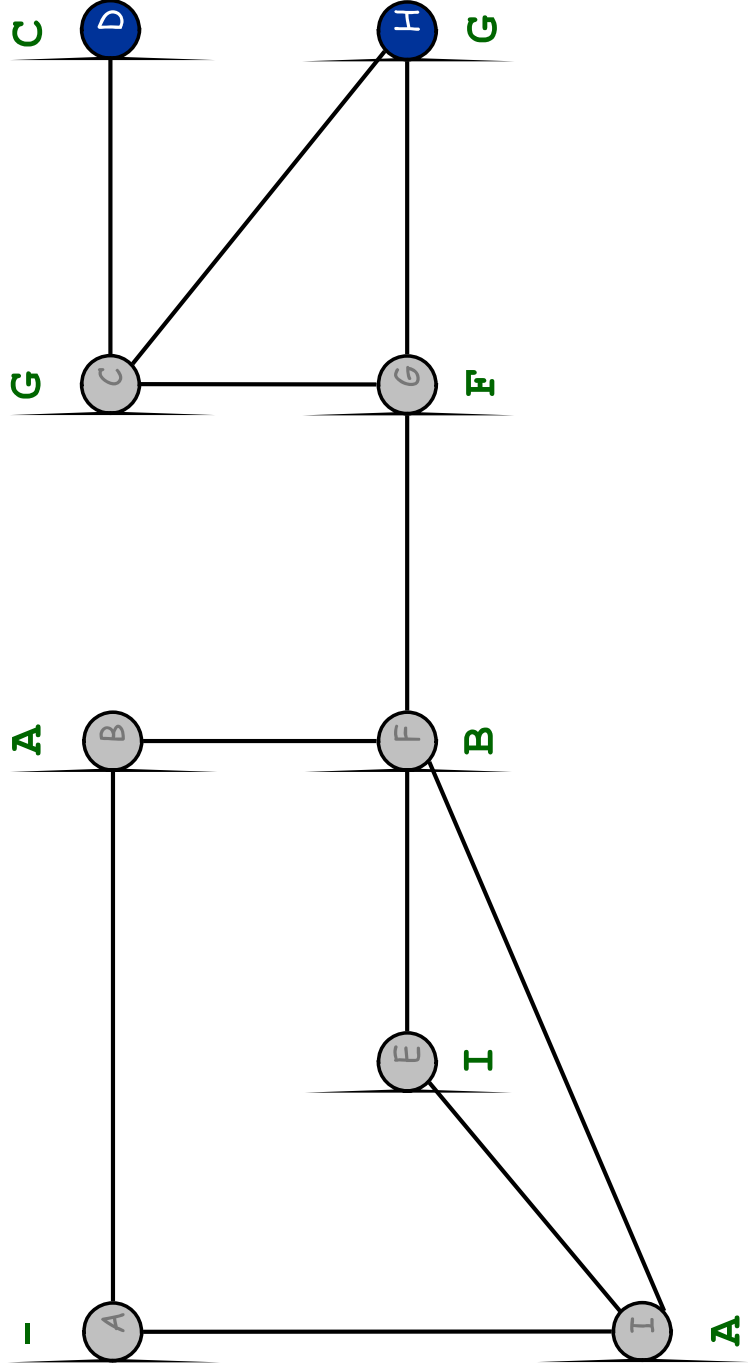
front

H D

FIFO Queue

A B I F E G C

Breadth First Search



Deque next vertex

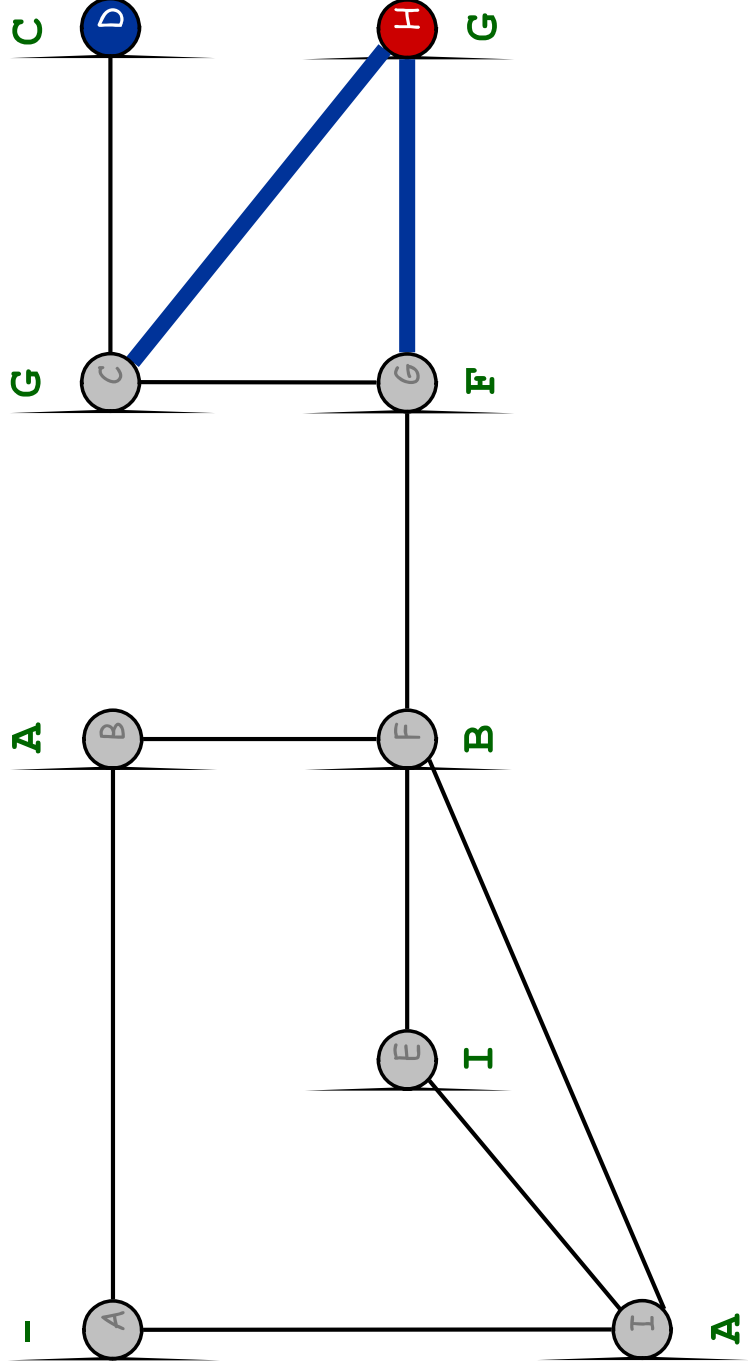
front

H D

FIFO Queue

A B I F E G C H

Breadth First Search



visit neighbors of H

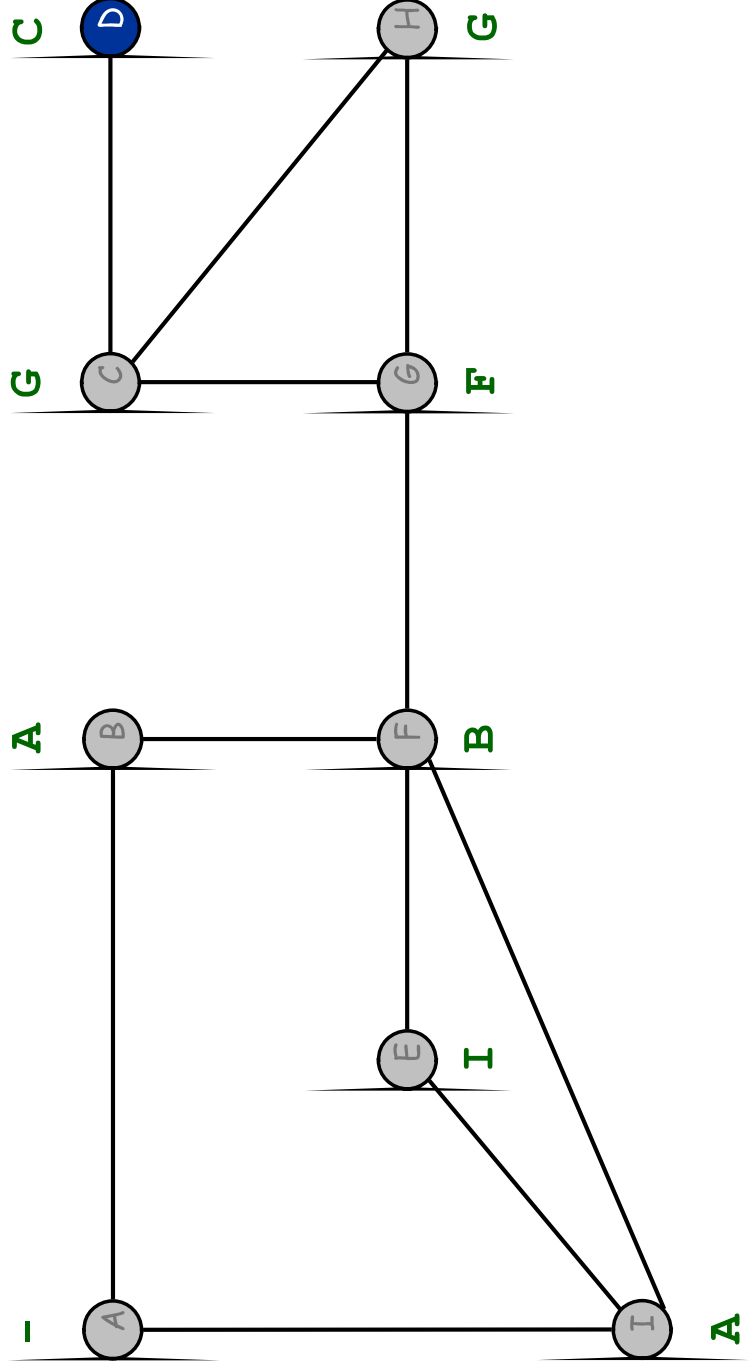
front

A

FIFO Queue

ABCDEFGHI

Breadth First Search



finished H

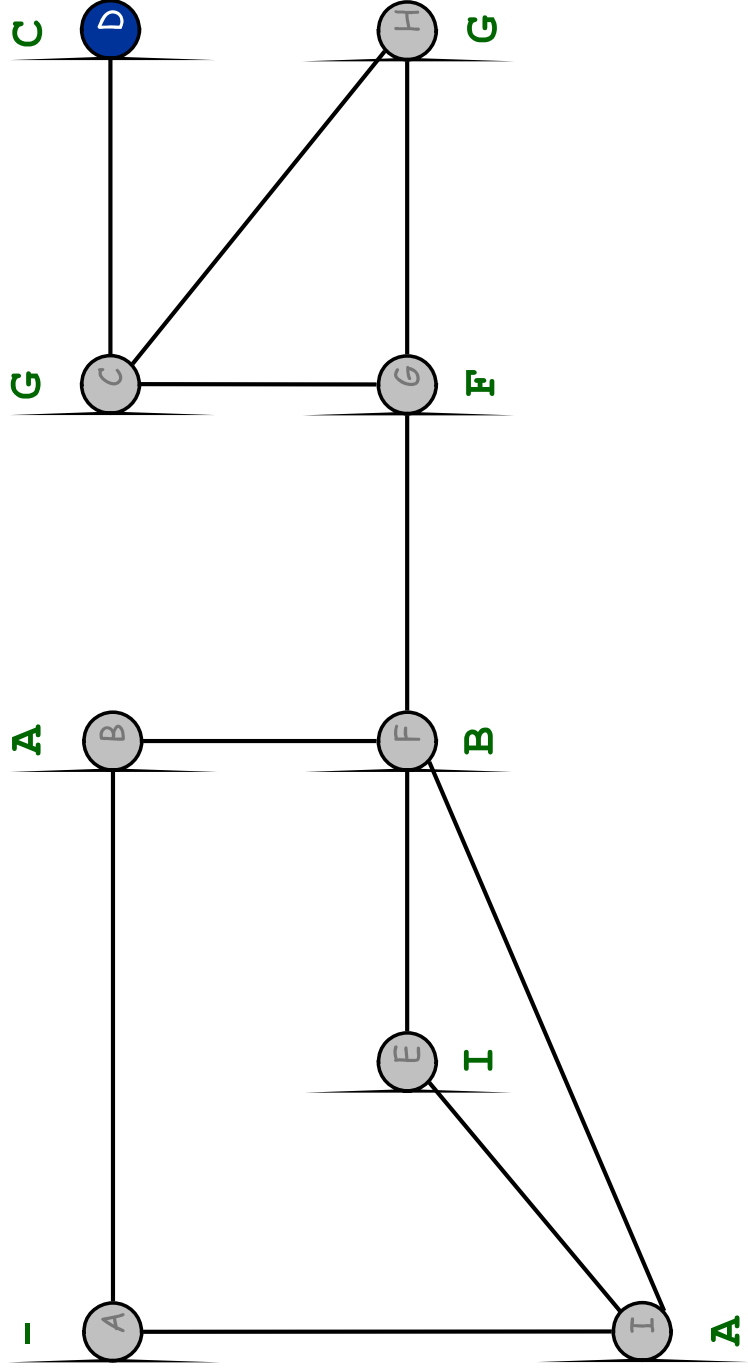
front

D

FIFO Queue

A B I F E G C H

Breadth First Search

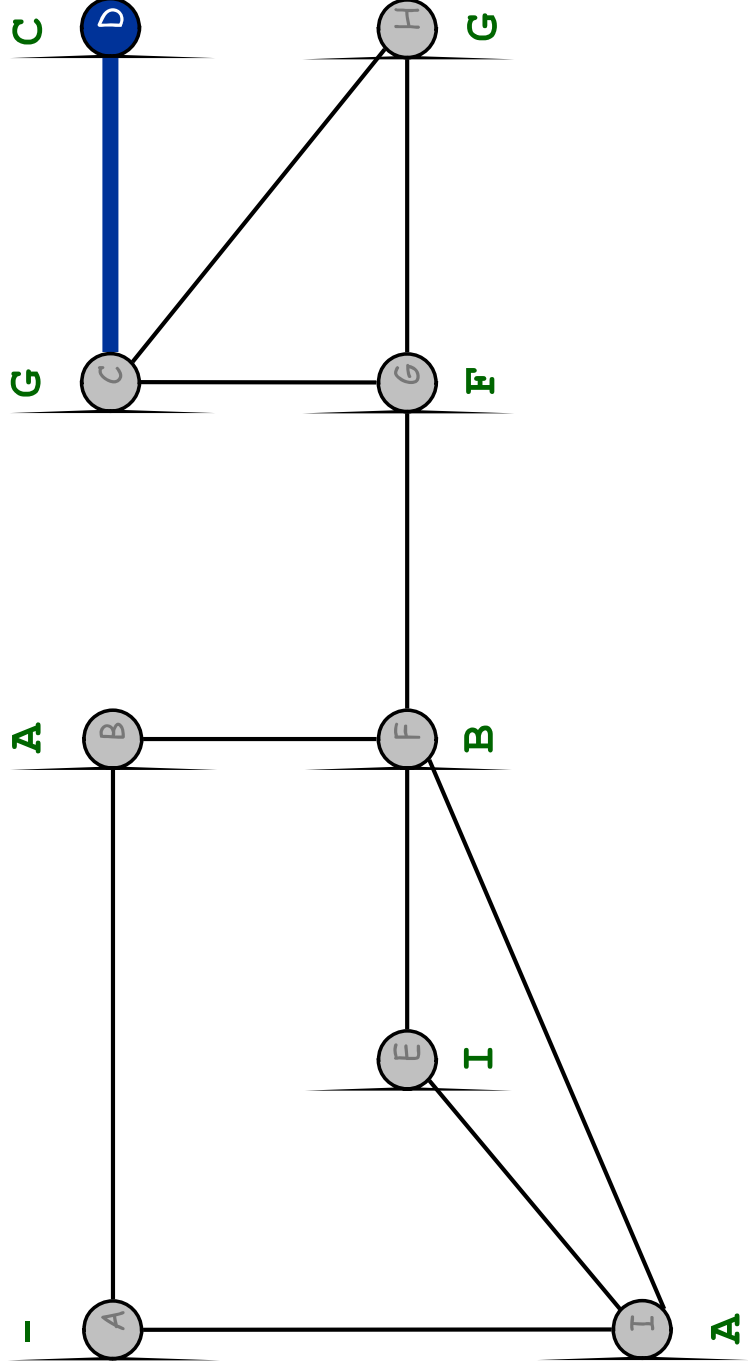


dequeue next vertex front D

FIFO Queue

A B I F E G C H D

Breadth First Search



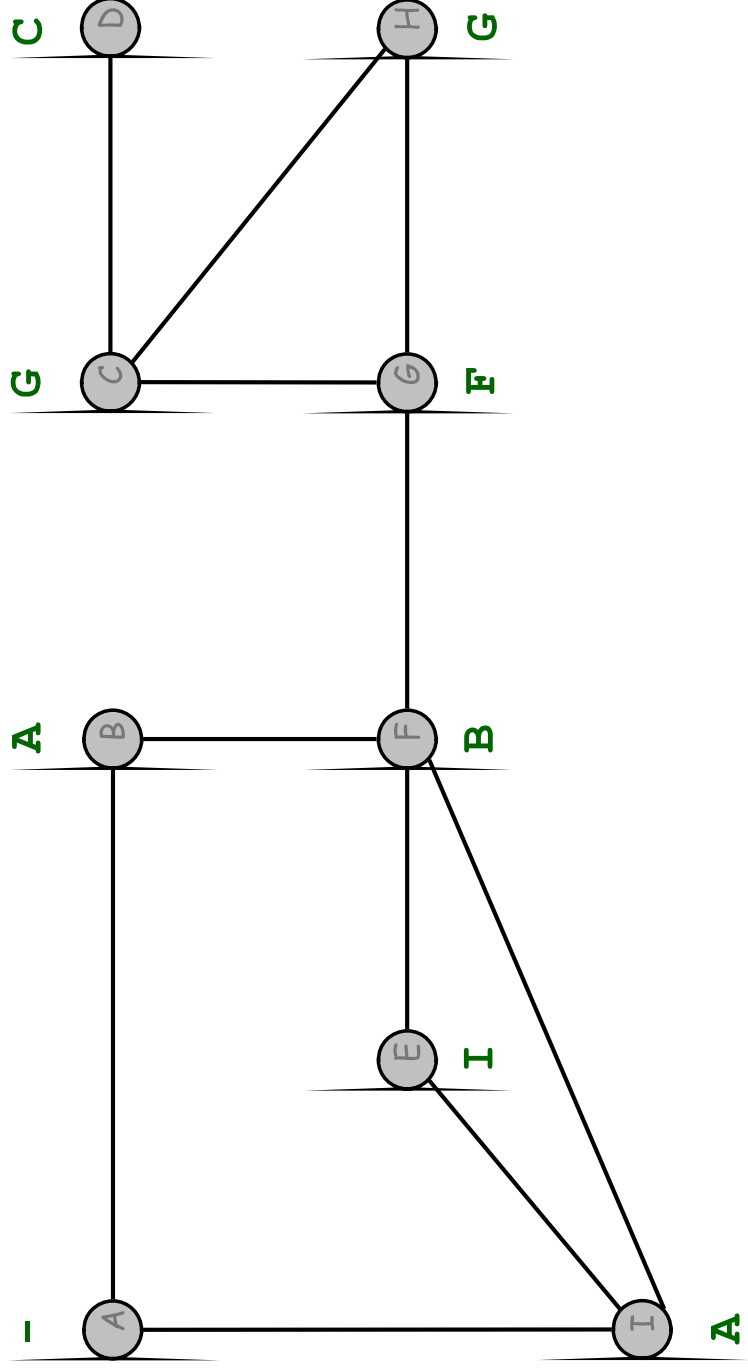
visit neighbors of D

front

FIFO Queue

A B I F E G C H D

Breadth First Search



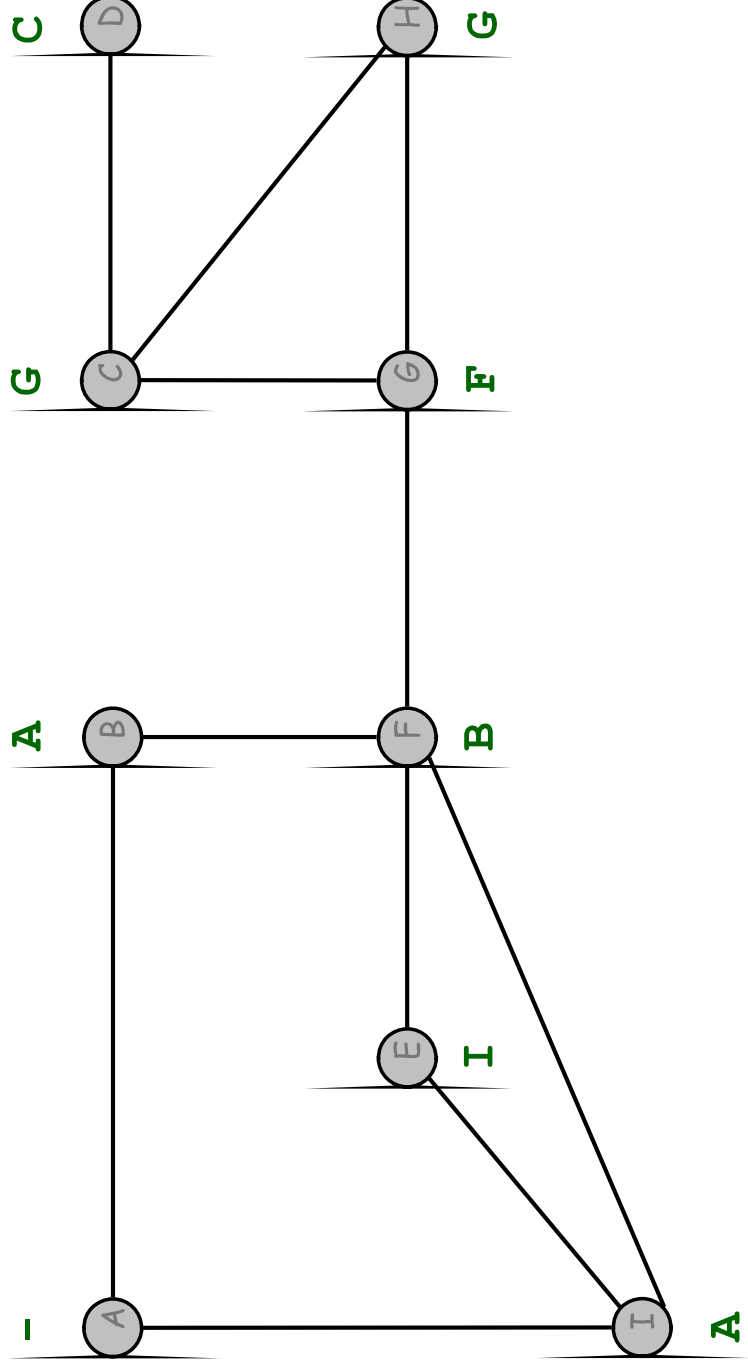
D finished

front

FIFO Queue

A B I F E G C H D

Breadth First Search



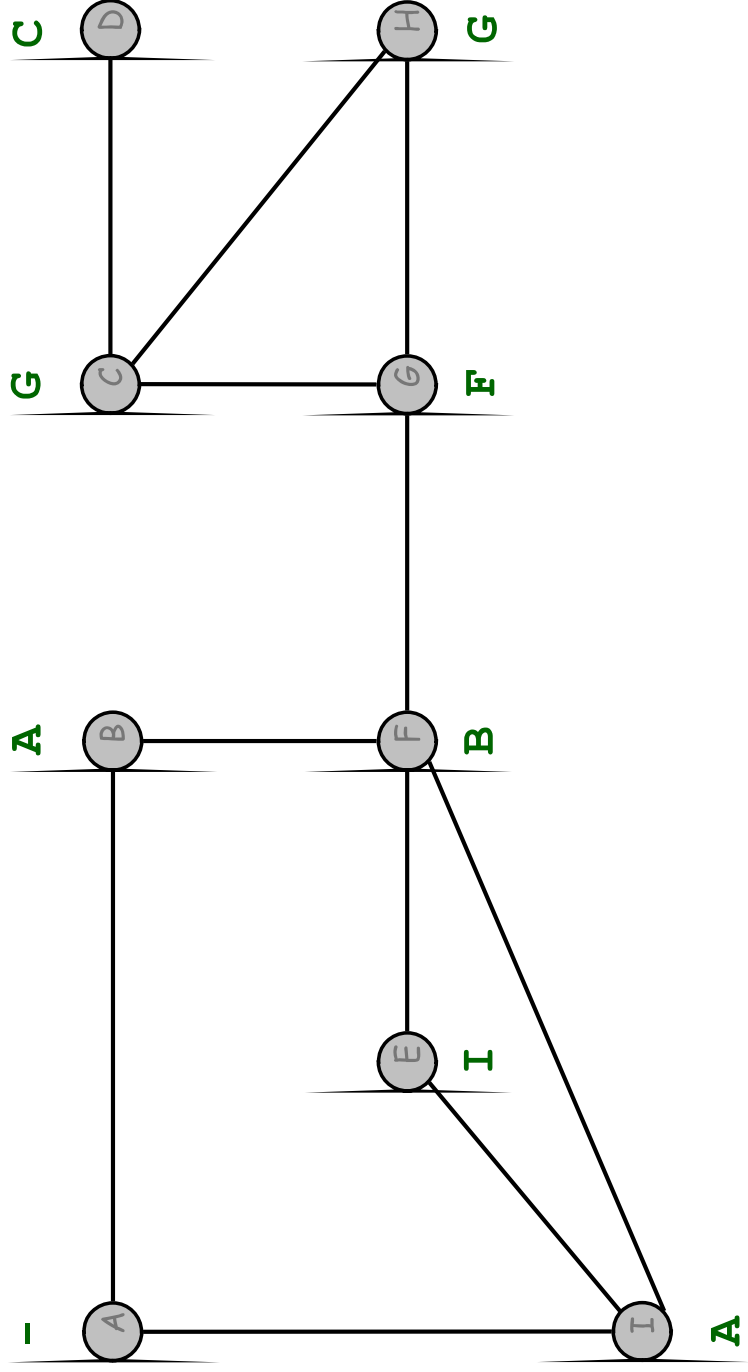
dequeue next vertex

front

FIFO Queue

ABCDEFGHI

Breadth First Search



STOP

front

FIFO Queue

A B I F E G C H D