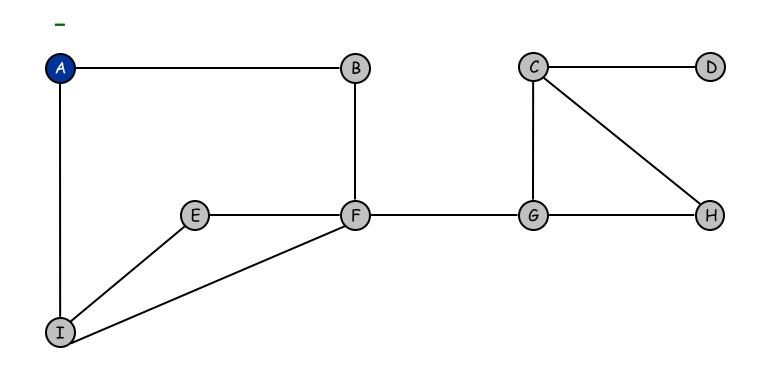


front

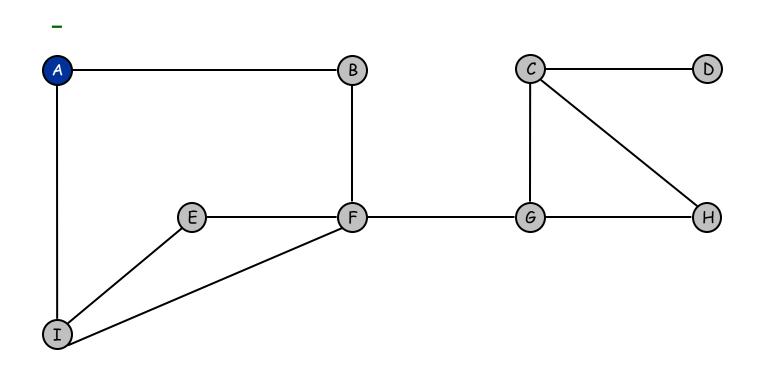
FIFO Queue



enqueue source node

front

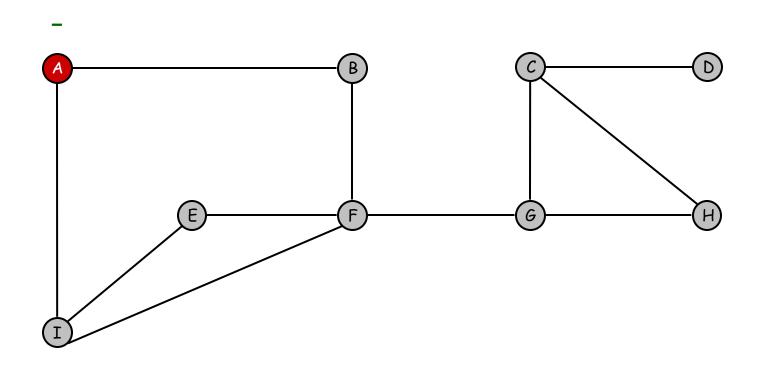
A



dequeue next vertex

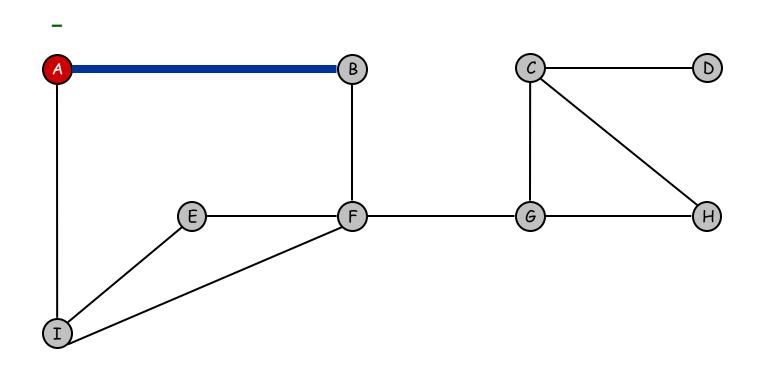
front

A



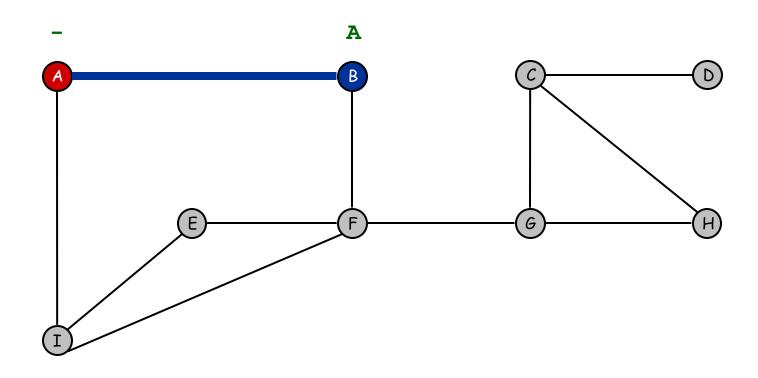
visit neighbors of A

front



visit neighbors of A

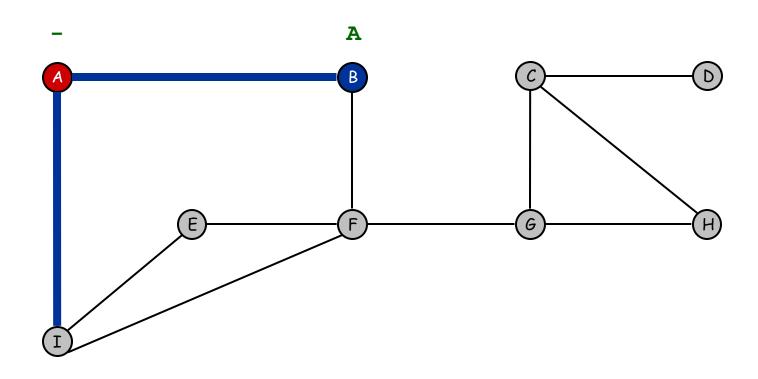
front



B discovered

front

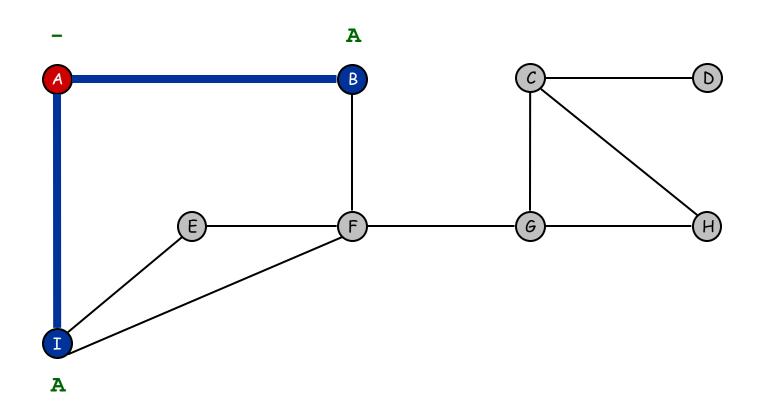
В



visit neighbors of A

front

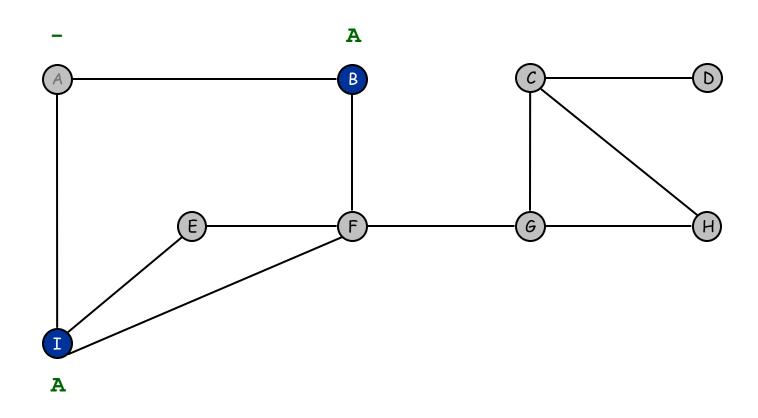
В



I discovered

front

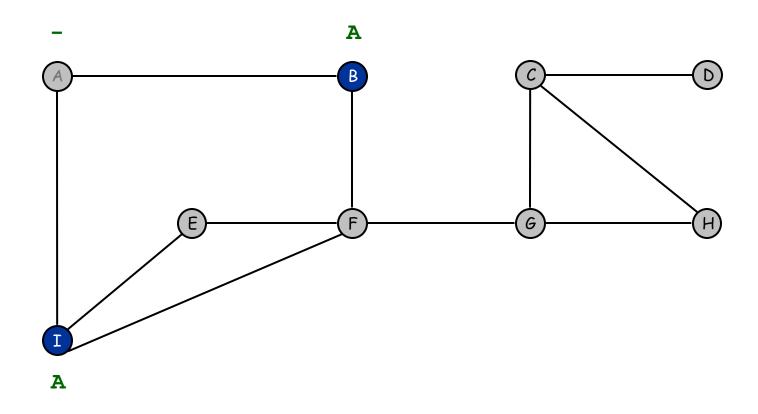
BI



finished with A

front

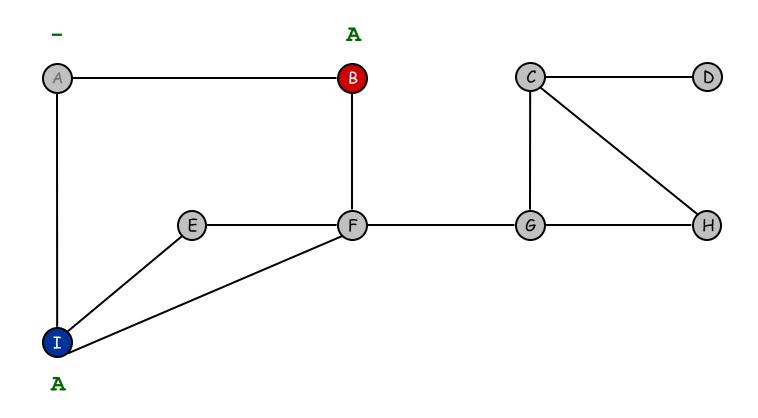
BI



dequeue next vertex

front

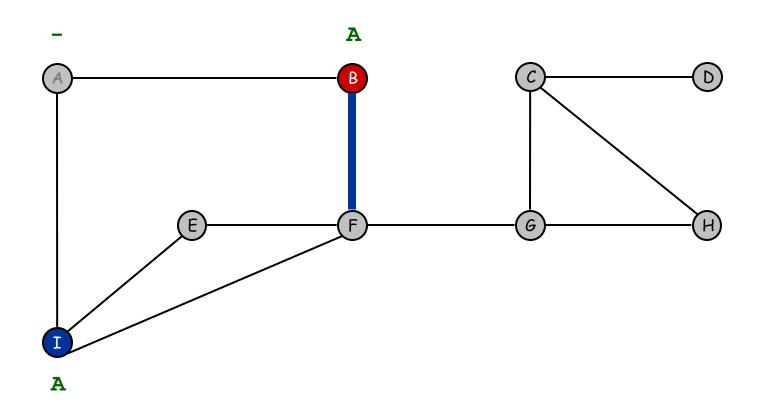
BI



visit neighbors of B

front

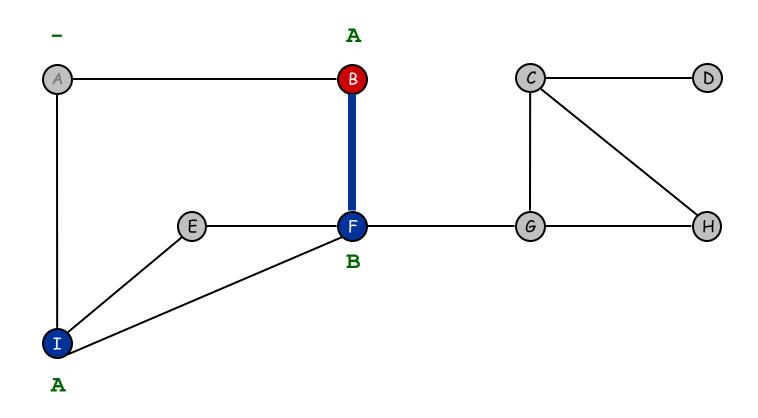
I



visit neighbors of B

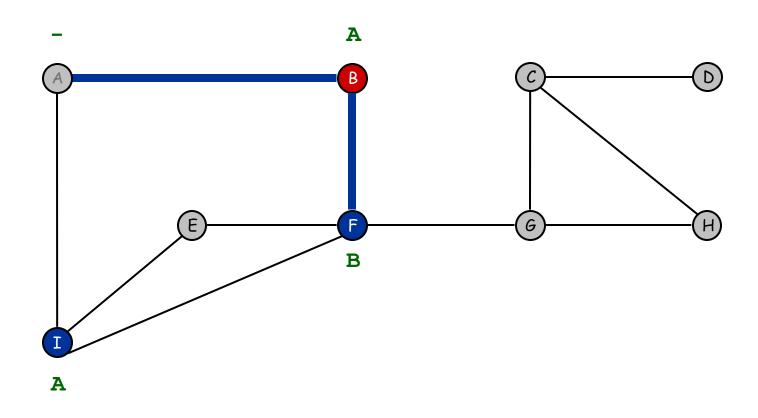
front

I



F discovered I F

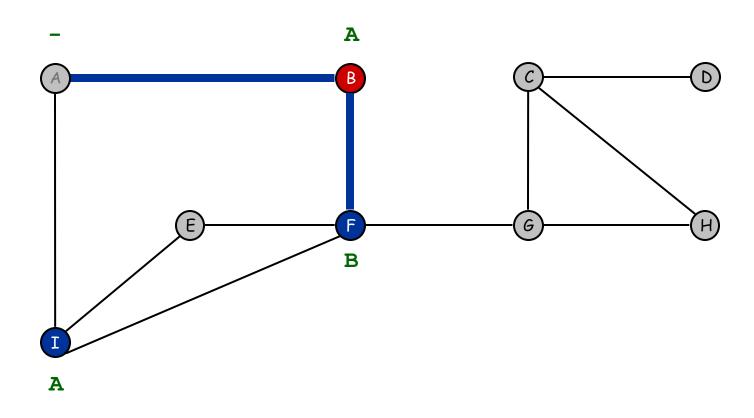
FIFO Queue



visit neighbors of B

front

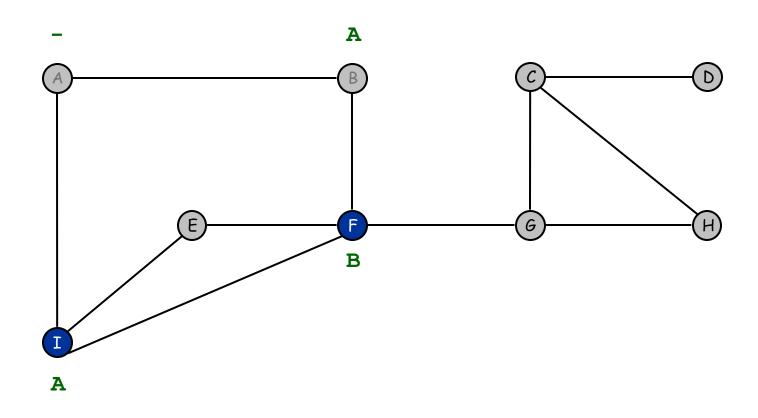
I F



A already discovered

front

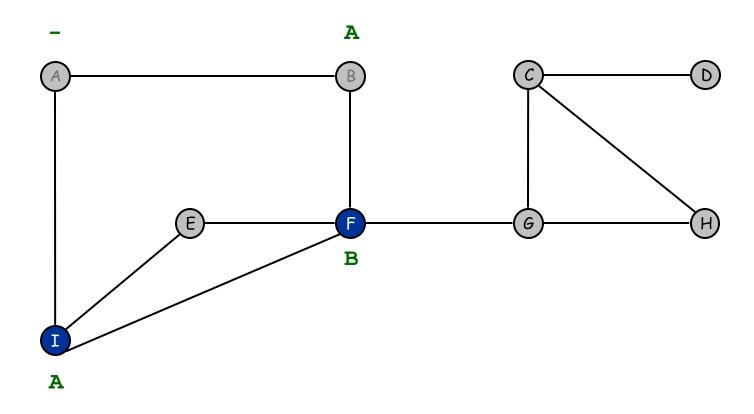
I F



finished with B

front

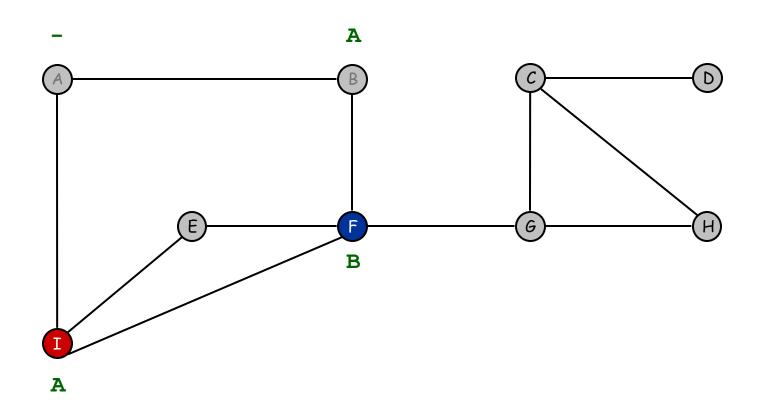
I F



dequeue next vertex

front

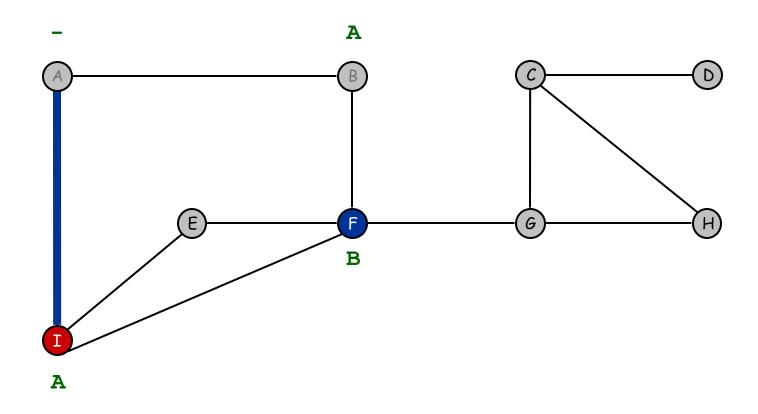
I F



visit neighbors of I

front

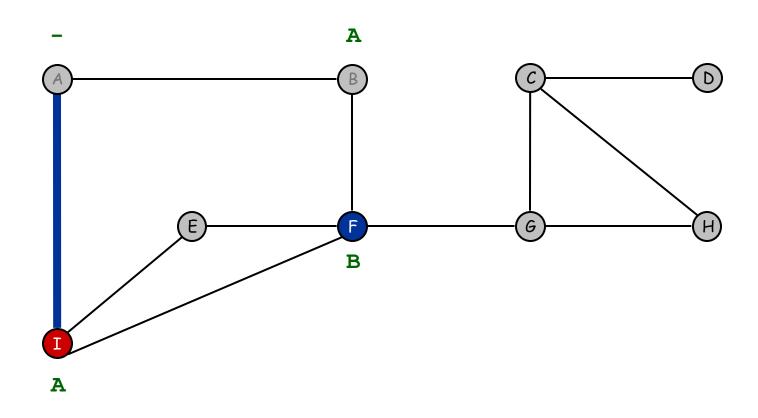
F



visit neighbors of I

front

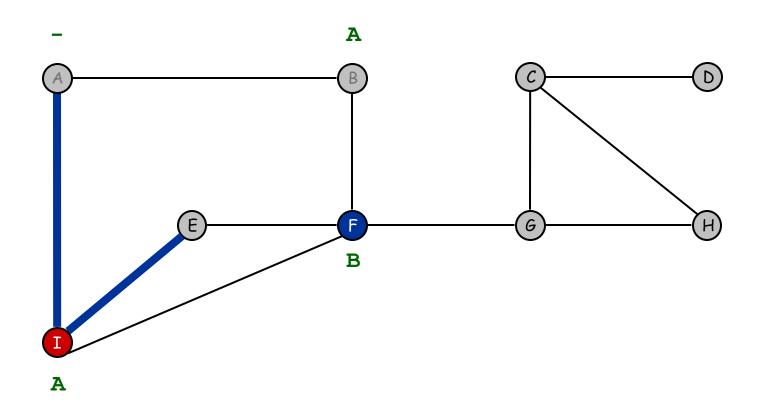
F



A already discovered

front

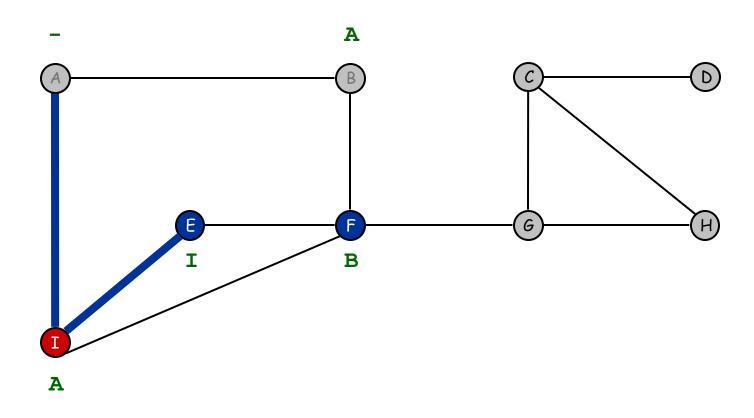
F



visit neighbors of I

front

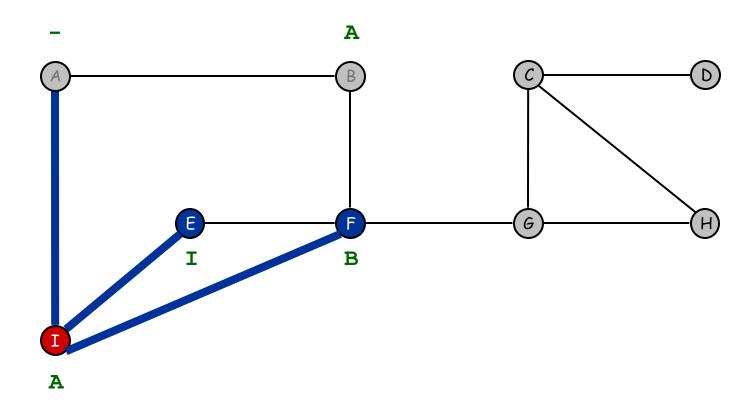
F



E discovered

front

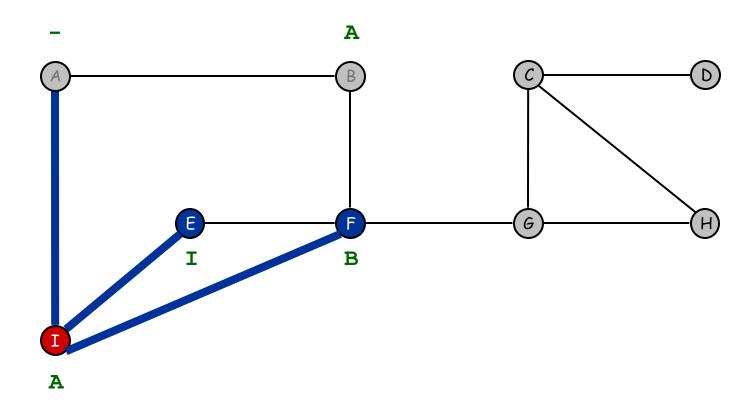
F E



visit neighbors of I

front

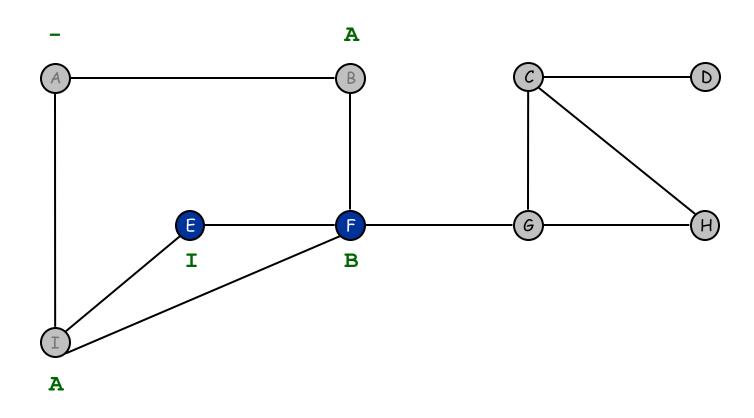
F E



F already discovered

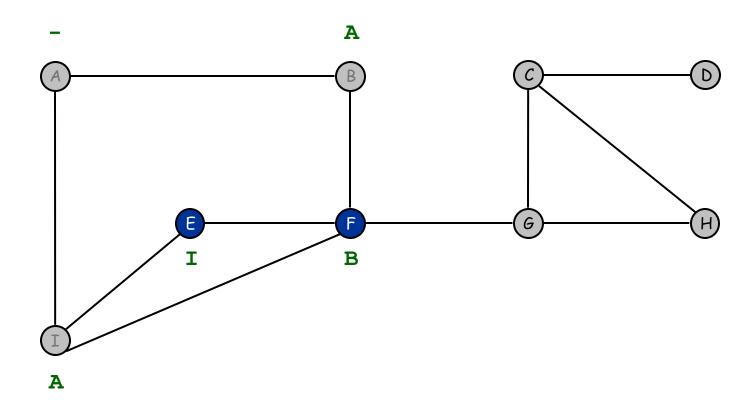
front

F E



I finished F E

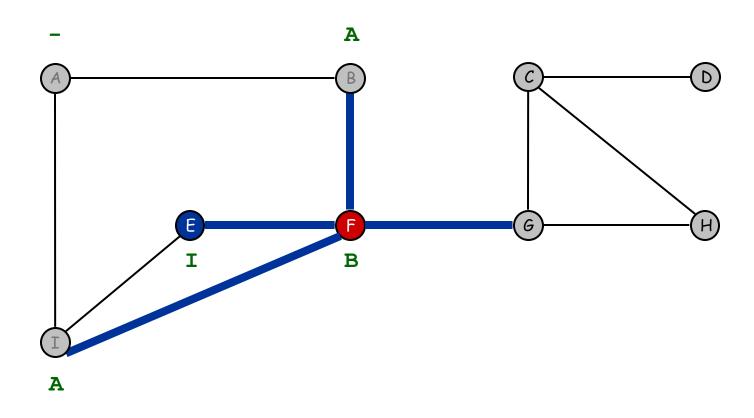
FIFO Queue



dequeue next vertex

front

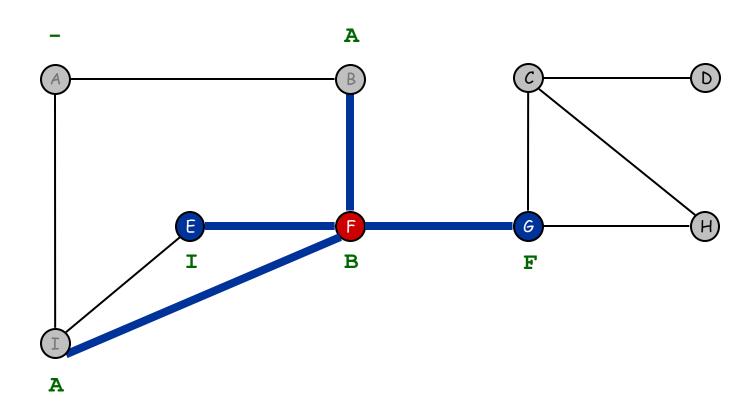
F E



visit neighbors of F

front

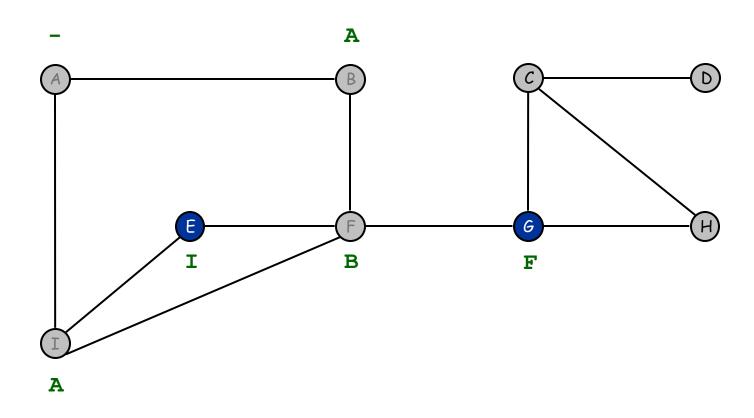
E



G discovered

front

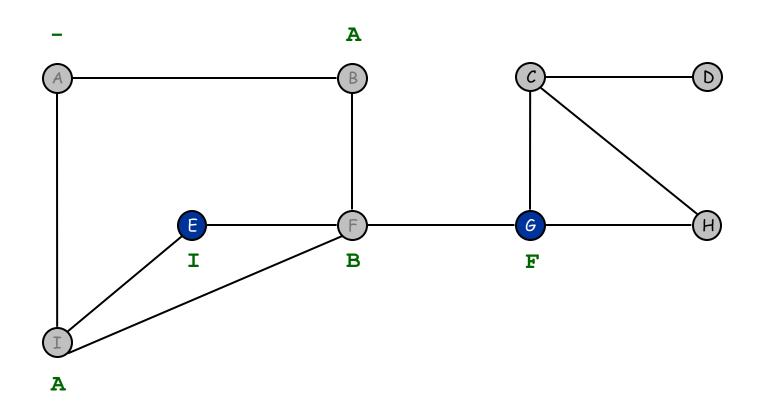
E G



F finished

front

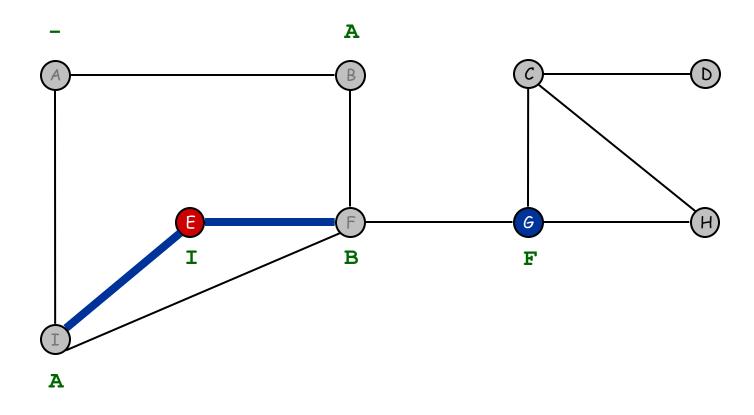
E G



dequeue next vertex

front

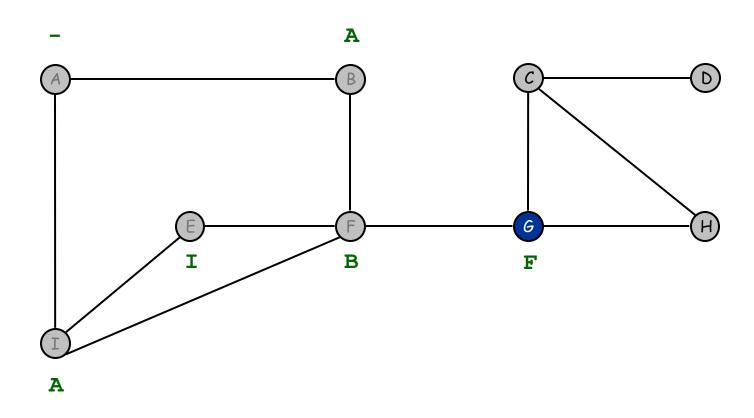
E G



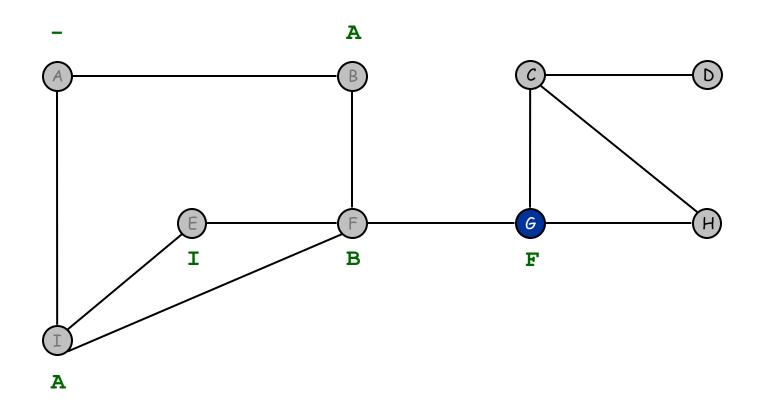
visit neighbors of E

front

G



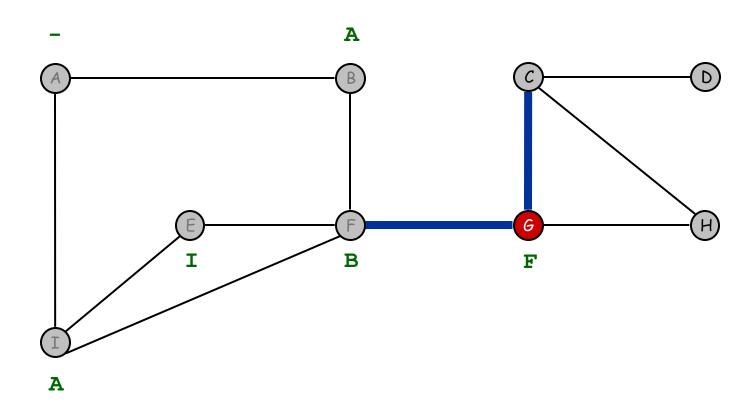
E finished G



dequeue next vertex

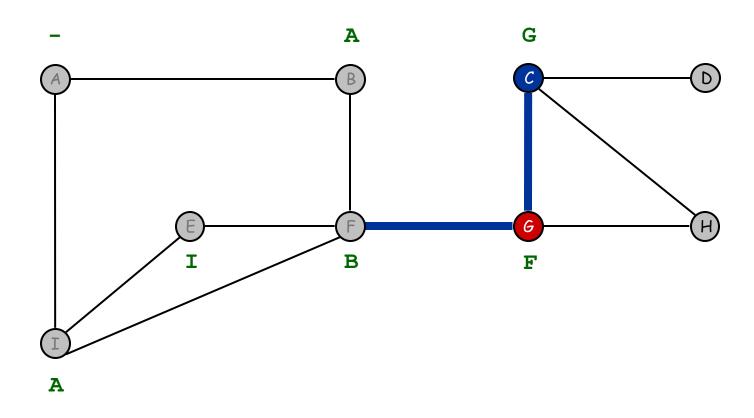
front

G

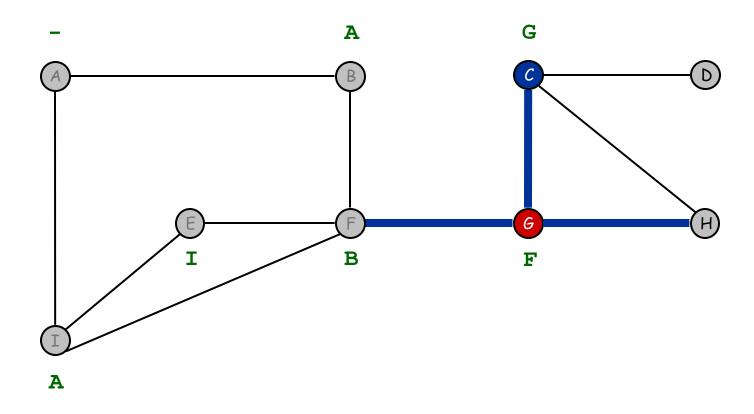


visit neighbors of G

front



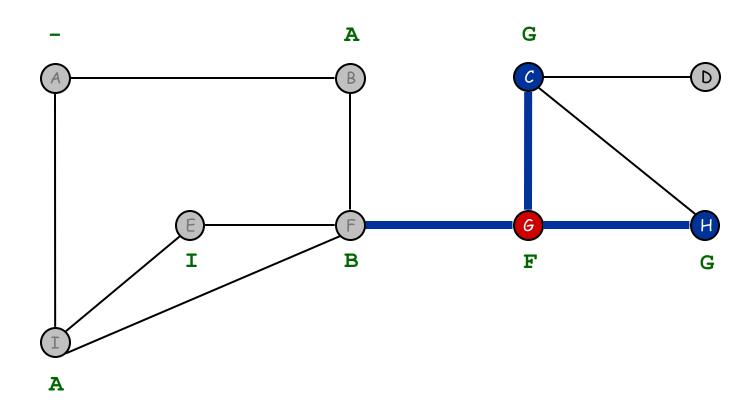
C discovered C



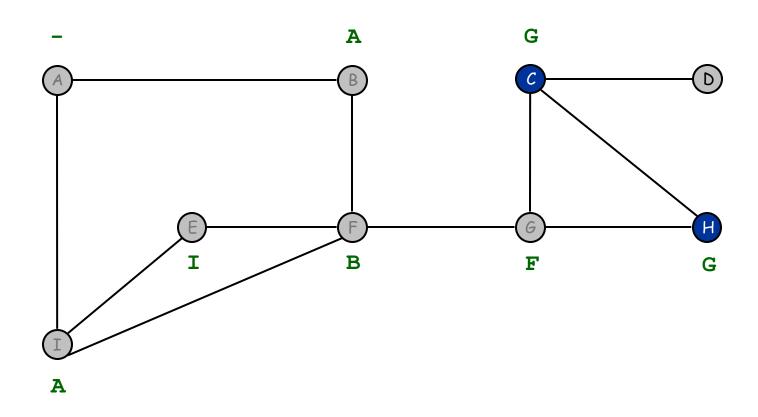
visit neighbors of G

front

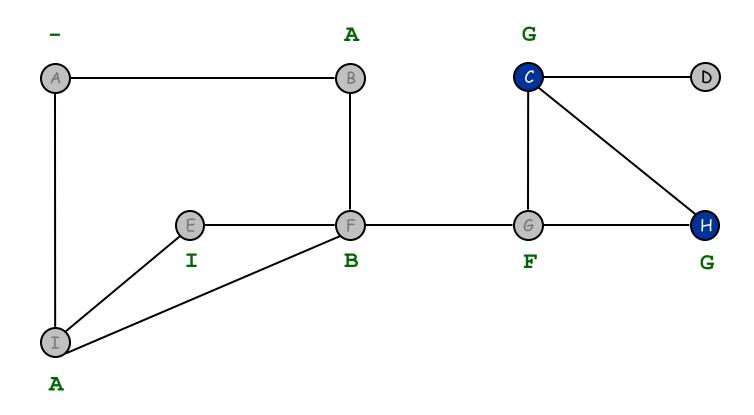
C



H discovered front C H



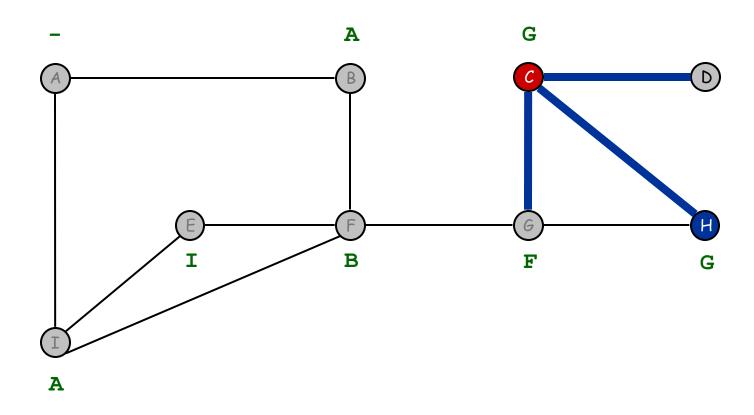
G finished C H



dequeue next vertex

front

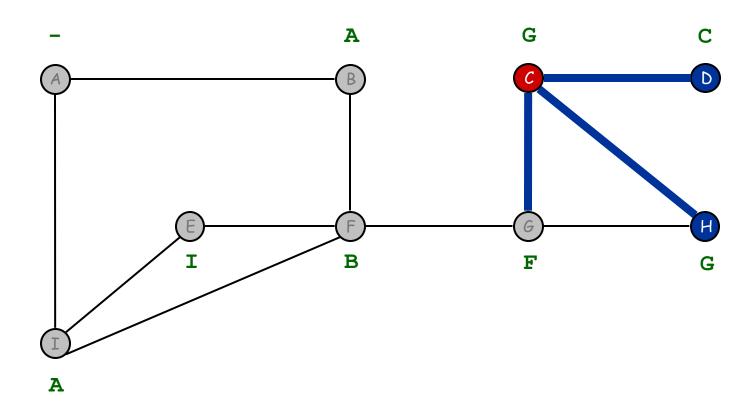
C H



visit neighbors of C

front

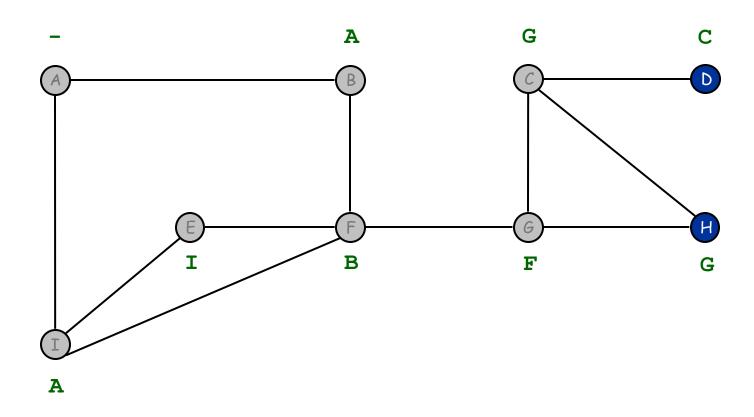
H



D discovered

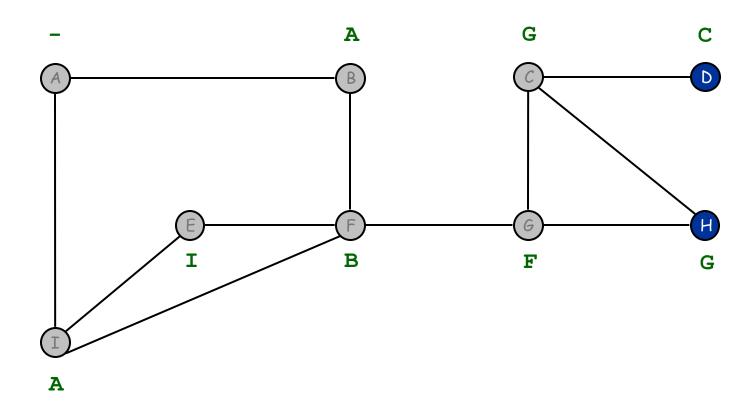
front

H D



C finished front H D

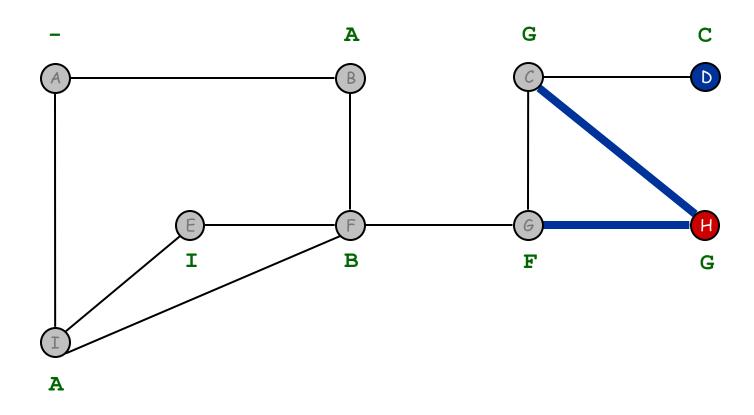
FIFO Queue



get next vertex

front

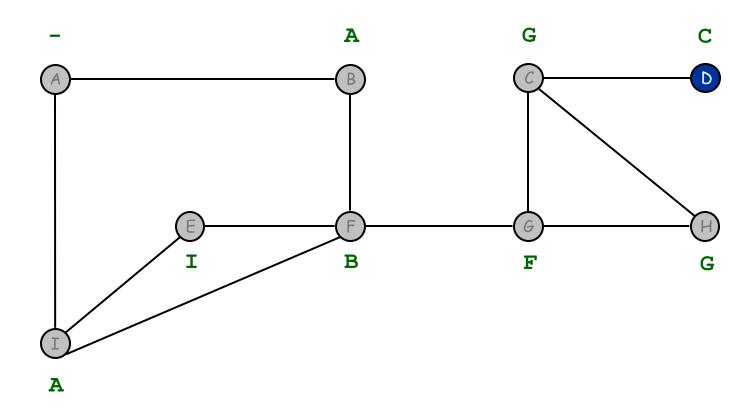
H D



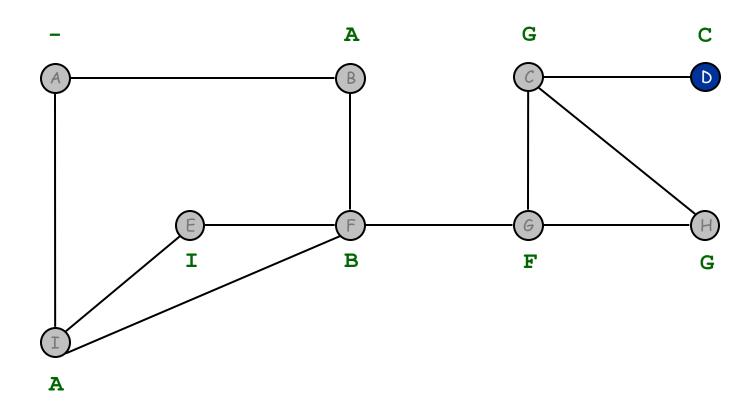
visit neighbors of H

front

D

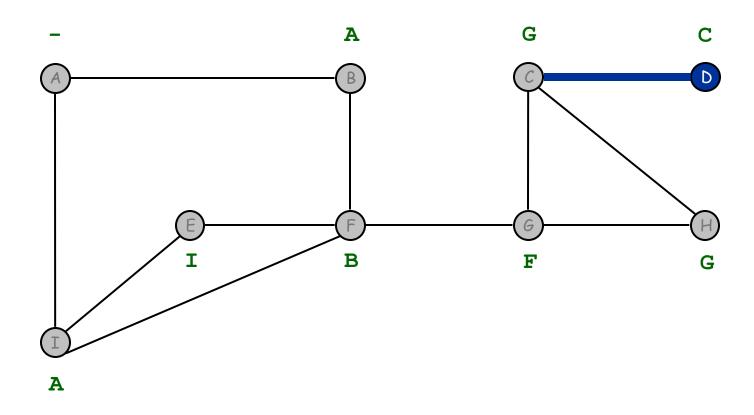


finished H front D



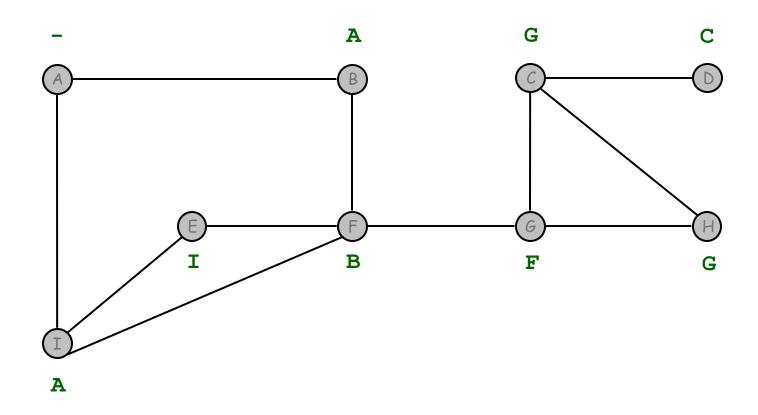
dequeue next vertex front D

FIFO Queue



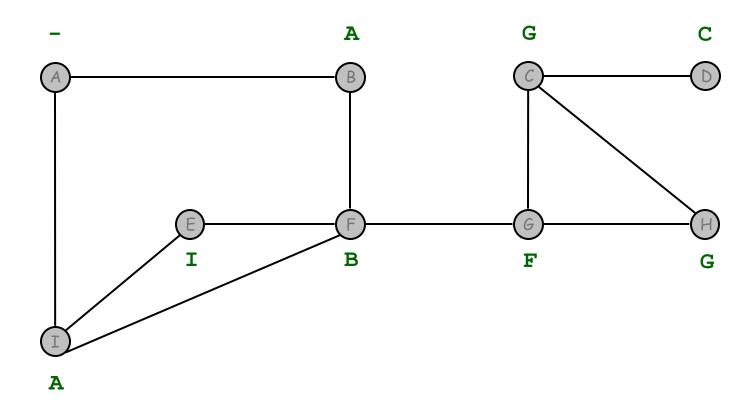
visit neighbors of D

front



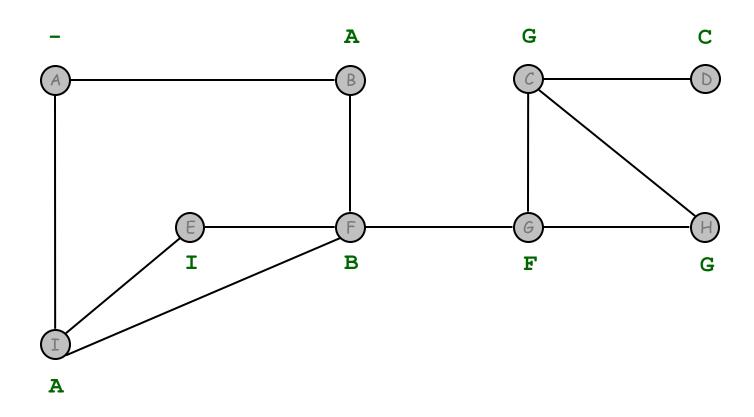
D finished

front



dequeue next vertex

front



STOP front

FIFO Queue