

queue visited

Breadth-first search

enqueue(D) → D

while (queue is not empty)

step 1

{
 dequeue() → D
 visit D
 enqueue(D.left) → E
 enqueue(D.right) → B
}

D

step 2

{
 dequeue() → B
 visit B
 enqueue(B.left) → C
 enqueue(B.right) → A
}

D
B

step 3

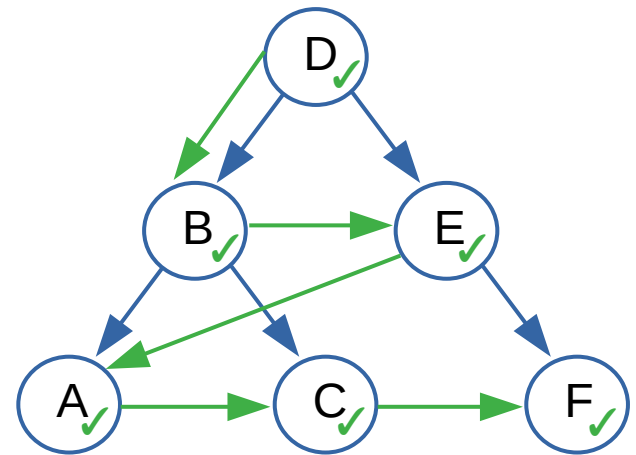
{
 dequeue() → E
 visit E
 enqueue(E.left) → F
 enqueue(E.right) → C
}

D
B
E

step 4

{
 dequeue() → A
 visit A
 enqueue(A.left) → F
 enqueue(A.right) → C
}

D
B
E
A



D, B, E, A, C, F

step 5

{
 dequeue() → C
 visit C
 enqueue(C.left) → F
 enqueue(C.right) →
}

D
B
E
A
C

step 6

{
 dequeue() → F
 visit F
 enqueue(F.left) →
 enqueue(F.right) →
}

D
B
E
A
C
F

Completed: the stack is empty