stack visited Post-order

node → D

while (stack is not empty
or node ≠ null)

step 1
[node == D]
push(D) → D
node → D.left (B)

step 2
[node == B]
push(B) → B D
node → B.left (A)

step 3
[node == A]
push(A) → A B D
node → A.left (Null)

step 4
[node == Null]
peekNode() → A
[A.right == Null]
visit(A) B D | A
lastVisitedNode ← pop() (A)

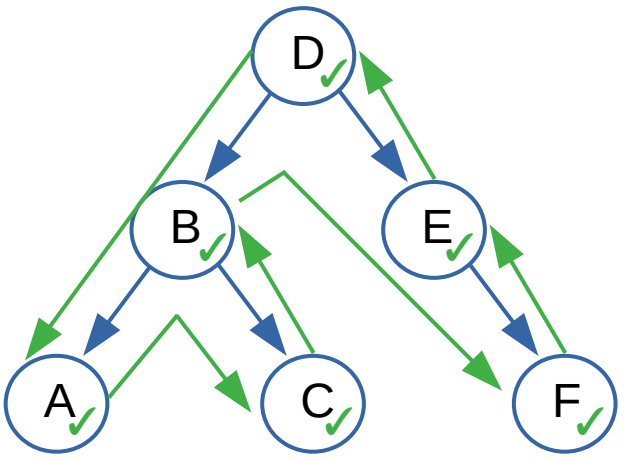
step 5
[node == Null]
peekNode() → B
[B.right ≠ Null and
B.right≠ lastVisitedNode]
node ← peekNode.right (C) C B D | A

step 6
[node == C]
push(C) → C B D | A
node → C.left (Null)

step 7
[node == Null]
peekNode() → C
[C.right == Null]
visit(C) B D | A C
lastVisitedNode ← pop() (C)

step 8
[node == Null]
peekNode() → B
[B.right == lastVisitedNode]
visit(B) D | A C B
lastVisitedNode ← pop() (B)

step 9
[node == Null]
peekNode() → D
[D.right ≠ Null and
D.right≠ lastVisitedNode]
node ← peekNode.right (E) D | A C B



A, C, B, F, E, D

step 10
[node == D]
push(D) → E D | A C B
node → E.left (Null)

step 11
[node == Null]
peekNode() → E
[E.right ≠ Null and
E.right≠ lastVisitedNode]
node ← peekNode.right (F) E D | A C B

step 12
[node == F]
push(F) → F E D | A C B
node → F.left (Null)

step 13
[node == Null]
peekNode() → F
[F.right == Null]
visit(F) E D | A C B F
lastVisitedNode ← pop() (F)

step 14
[node == Null]
peekNode() → E
[E.right == lastVisitedNode]
visit(E) D | A C B F E
lastVisitedNode ← pop() (E)

step 15
[node == Null]
peekNode() → D
[D.right == lastVisitedNode]
visit(D) | A C B F E D
lastVisitedNode ← pop() (D)

step 16
[node == Null]
peekNode() → Null
[peekNode.right == Null]
visit(peekNode.right) | A C B F E D
lastVisitedNode ← pop() (Null)

Completed: the stack is empty
and last visited note is Null