

Depth-first search

stack visited

push(G) → G

while (stack is not empty)

step 1 {
 pop() → G
 visit G
 for all edj_edges
 push(H)
 push(P)
 push(R)
}

R
P
H

G

step 2 {
 pop() → R
 visit R
 for all edj_edges
 push(A)
}

A
P
H

G
R

step 3 {
 pop() → A
 visit A
 for all edj_edges
 push()
}

P
H

G
R
A

step 4 {
 pop() → P
 visit P
 for all edj_edges
 push()
}

H

G
R
A
P

step 5 {
 pop() → H
 visit H
 for all edj_edges
 push()
}

G
R
A
P
H

Completed: the stack is empty

