

Breadth-first search

enqueue(G) →

queue

visited

G

G

visit G

while (queue is not empty)

step 1 {

dequeue() → G

for all adj_edges

visit R

push(R)

visit P

push(P)

visit H

push(H)

R

P

H

G

R

P

H

step 2 {

pop() → H

for all adj_edges

R

P

G

R

P

H

step 3 {

pop() → P

for all adj_edges

R

G

R

P

H

step 4 {

pop() → R

for all adj_edges

visit A

push(A)

A

G

R

P

H

A

step 5 {

pop() → A

for all adj_edges

G

R

P

H

A

Completed: the stack is empty