

BFS(V, E, s)

for each $u \in V - \{s\}$

$u.d = \infty$

$s.d = 0$

$Q = \emptyset$

ENQUEUE(Q, s)

while $Q \neq \emptyset$

$u = \text{DEQUEUE}(Q)$

for each $v \in G.\text{Adj}[u]$

if $v.d == \infty$

$v.d = u.d + 1$

ENQUEUE(Q, v)