

BFS (G, s)

$d[s] \leftarrow 0$

$\pi[s] \leftarrow \text{NIL}$

INIT

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

$\text{color}[u] \leftarrow \text{white}$

$d[u] \leftarrow \infty$

$\pi[u] \leftarrow \text{NIL}$

} for det tilfælde, at grafen ikke er smh.

$\Theta(V)$

$Q \leftarrow \emptyset$

ENQUEUE(Q, s)

\triangleright FIFO-kø

$\text{color}[s] \leftarrow \text{grey}$

while $Q \neq \emptyset$

$\Theta(V)$

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

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

if $\text{color}[v] = \text{white}$

$\text{color}[v] \leftarrow \text{grey}$

$d[v] \leftarrow d[u] + 1$

$\pi[v] \leftarrow u$

ENQUEUE(Q, v)

$\Theta(E)$

$\text{color}[u] \leftarrow \text{black}$

} bruges ikke i alg.
kun i analyse