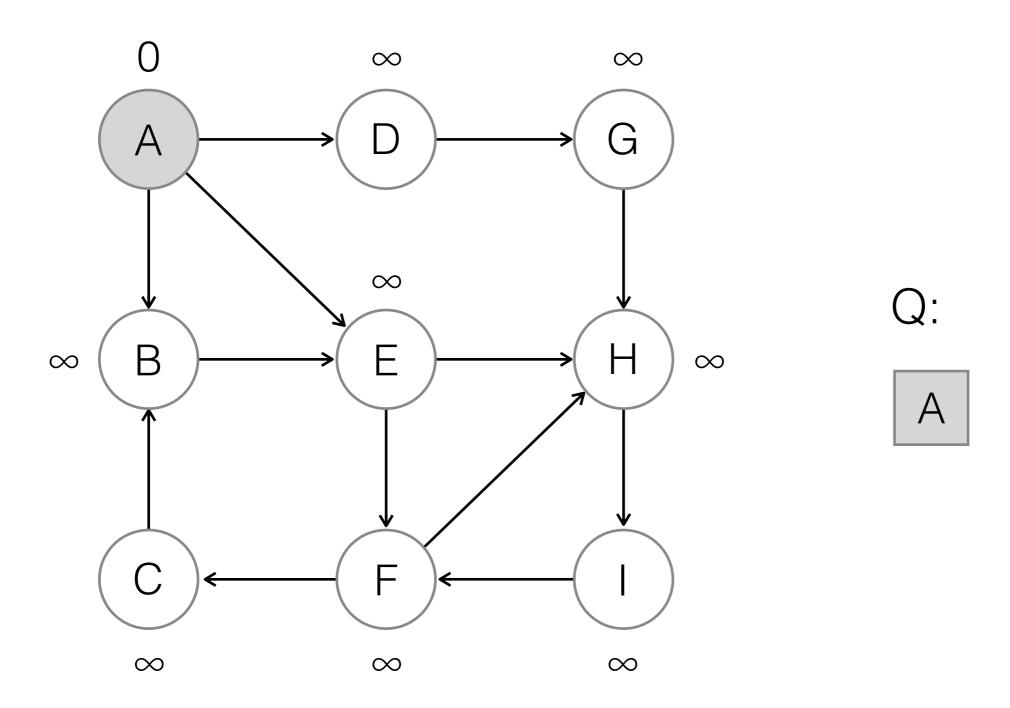
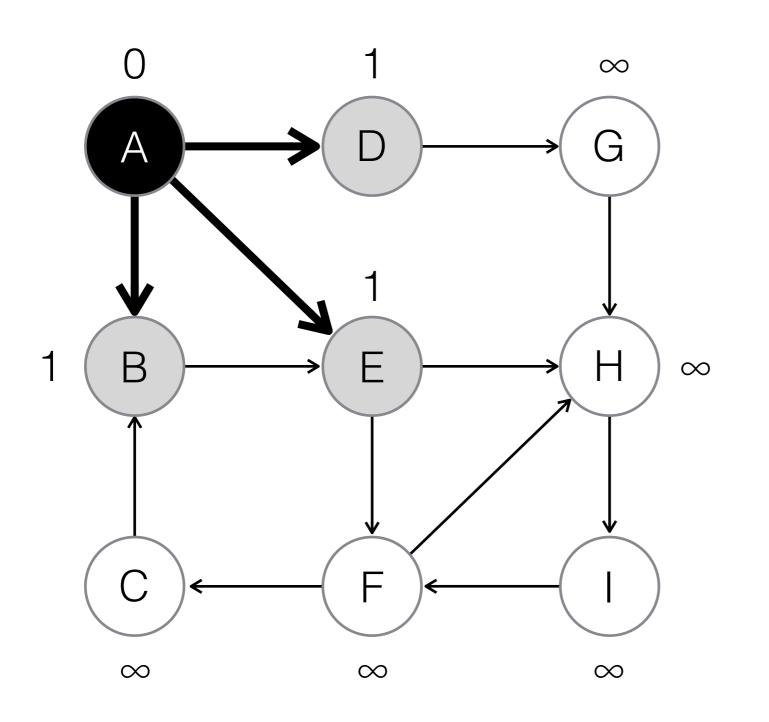
Breadth-First Search

```
BFS(G,s):
let Q be an empty queue
foreach node v in G except s
   color(v) = white
   dist(v) = \infty
   pred(v) = null
color(s) = grey
dist(s) = 0
pred(s) = null
Q.enqueue(s)
while !Q.isEmpty()
   let u = Q.front()
   foreach neighbor v of u
     if color(v) == white
        color(v) = grey
        dist(v) = dist(u) + 1
        pred(v) = u
        Q.enqueue(v)
   Q.dequeue()
   color(u) = black
return dist
```





 \mathbb{Q}

B D E

