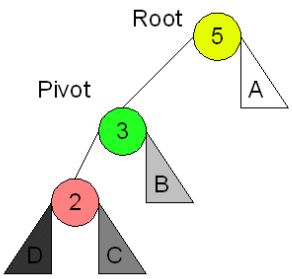
What do we do here?

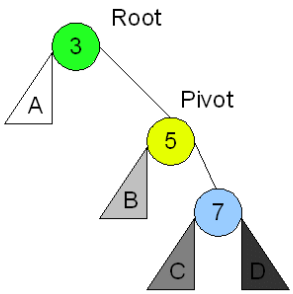
Left Left Case



1

What do we do here?

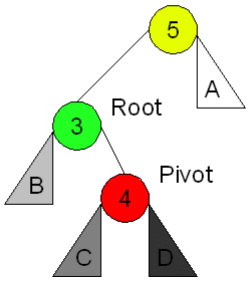
Right Right Case



2

What do we do here?

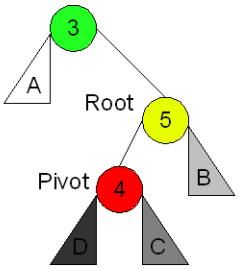
Left Right Case



3

What do we do here?

Right Left Case



4

What does a Depth First Search use?

5

What does a Breadth First Search use?

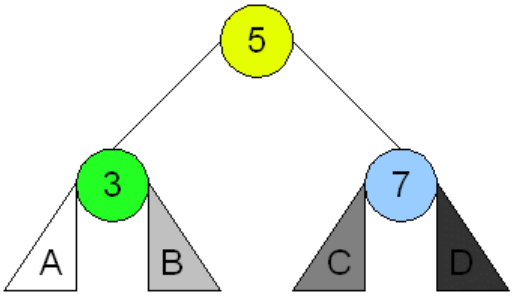
6

What is the running time of Dijkstra's algorithm?

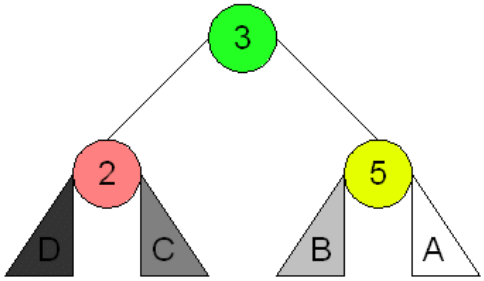
7

What's the running time of a depth first search when the graph is an adjacency matrix?

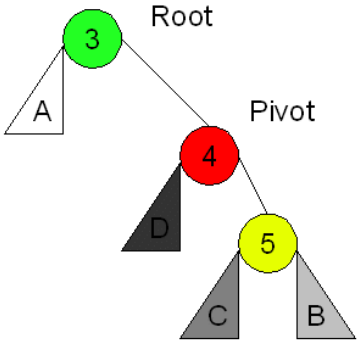
8



2

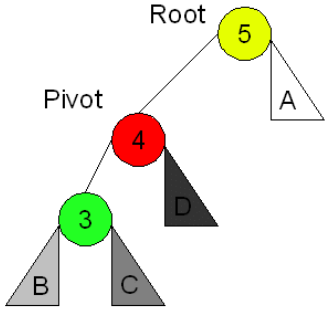


1



Then a right-right!

4



Then a left-left!

3

A queue!

6

A stack!

5

$O(V^2)$ *since finding neighbours takes* $O(V)$ *time.*

8

$O(E + V \log(v))$

7

What's the running time of a depth first search when the graph is an adjacency list?

$O(V + E)$