Graph Traversals 
And Reachability

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CSCI 136
Depth-First Search

TCL

todo stack

TBL

todo stack

Bronf

TBL

TCL

todo stack

West

Bronf

TBL

TCL

todo stack
Breadth-First Search
Cycle Detection

TCL

West

Bronfman

Jessup

Art

Pool

TBL

TCL

Home

Baxter

Griffin

TBL

TCL

todo stack

Art

Jessup

Pool

TCL
Unicycle Factory

- Attach Seat to Frame
- Weld Frame
- Paint Frame
- Attach Wheel to Frame
- Attach Pedals to Wheel
- Inflate Tire

Finished Unicycle

- Inflated Tire
- Attach Wheel
- Attach Pedals
- Paint Frame
- Weld Frame
- Attach Seat

Todo Stack

- Attach Wheel
- Finished Unicycle
1. Attach Pedals
2. Weld Frame
3. Paint Frame
4. Attach Wheel
5. Attach Seat
6. Inflate Tire
7. Finished Unicycle

Shortest Path (No Weights on Edges)
Dijkstra's Algorithm

Current: 500 SF→Port

SF→Port; SF→Den; SF→Dal
500 1000 1500
Seattle 2800 100
Portland 500 100
SF 0 1000
Denver 900 700
Chicago 1900 600
LA 1200 1500
Dallas 700 2200
Boston 3200 600
NY 3000 800
Atlanta 200

Current:

500 600 1000 1500 1900 2200 2700