**Graph Traversals and Reachability**

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CSCI 136

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**Depth-First Search**

```java
void reachableFrom(Graph g, Object src) {  
    if (g.visited(src)) return;  
    g.visit(src);  
    Iterator neighbors = g.neighbors(src);  
    while (neighbors.hasNext()) {  
        reachableFrom(g, neighbors.next());  
    }  
}
```
Cycle Detection
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 Seat
- Weld Frame
- Paint Frame
- Attach Pedals

Todo Stack
Finished Unicycle

Inflate Tire

Attach Wheel

Attach Seat

Attach Pedals

Paint Frame

Weld Frame

Attach Wheel

Finished Unicycle

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