

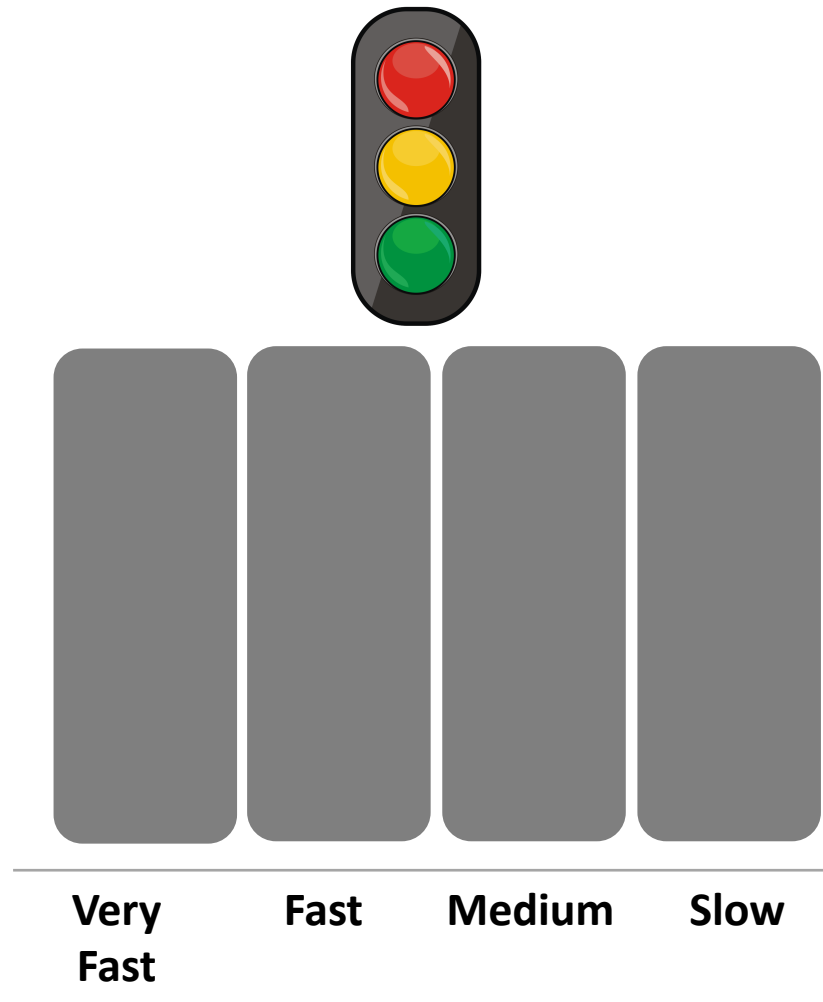
CSE 3010 – Data Structures & Algorithms

Lecture #39

What will be covered today

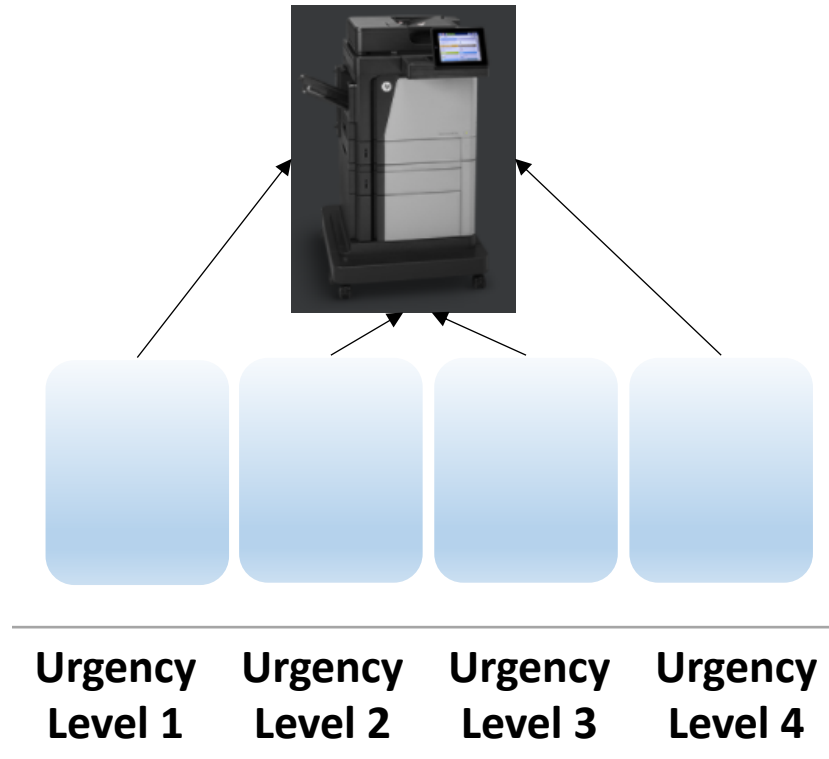
- Deletion of a node in an AVL tree
- What is a priority queue

Simulation of traffic load on a busy road

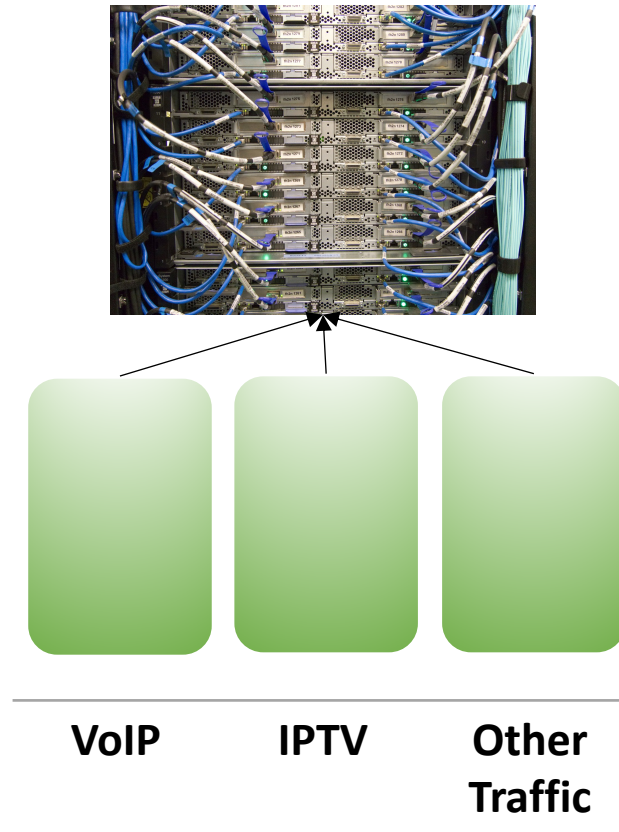


Traffic light picture credits: <http://clipart-library.com/images/kcKnxgL5i.png>

Simulation of load on a network printer



Simulation of load on a network router



Network router image credits: https://cdn.pixabay.com/photo/2018/01/22/21/34/sever-3100049_1280.jpg

Priority queue implemented using a queue

Assumption: Removal of items with highest priority number

Case 1:

- Take care of priority while adding an item into the queue

- No change when removing an item from the queue

Case 2:

- No change while adding an item into the queue

- Remove item having the highest priority from the queue