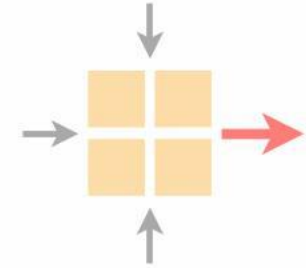


# Communication Networks

Spring 2024



Lukas Röllin

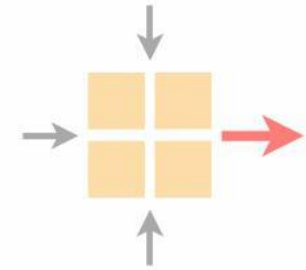
<https://comm-net.ethz.ch/>

ETH Zürich

May 2, 2024

# Communication Networks

## Exercise 8



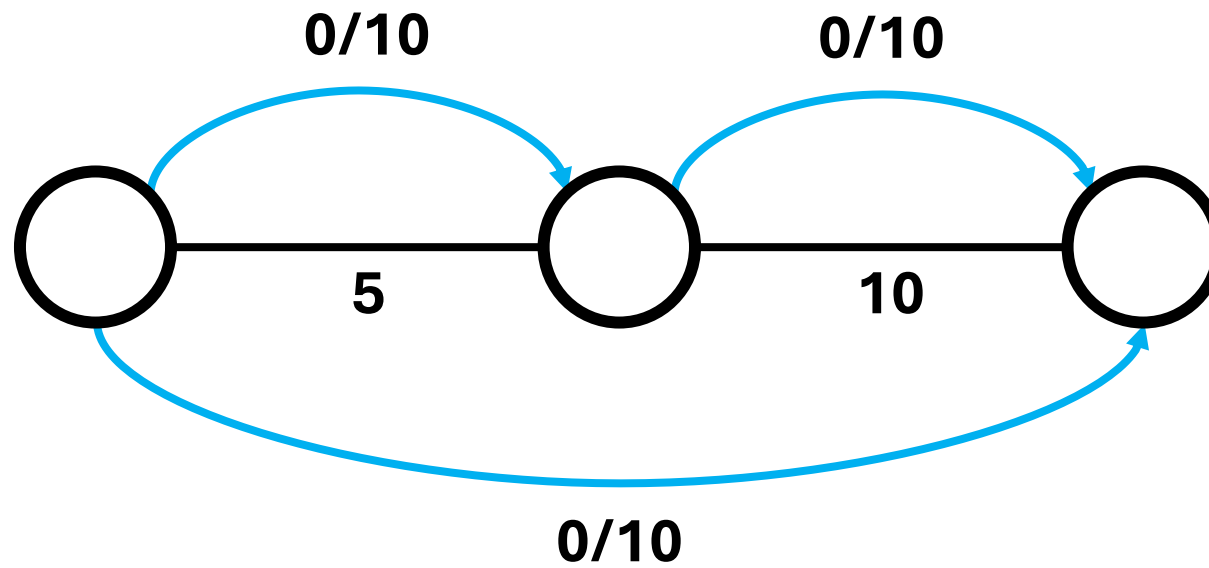
### Important lecture topics

Introduction to this week's exercise

Time to solve the exercise

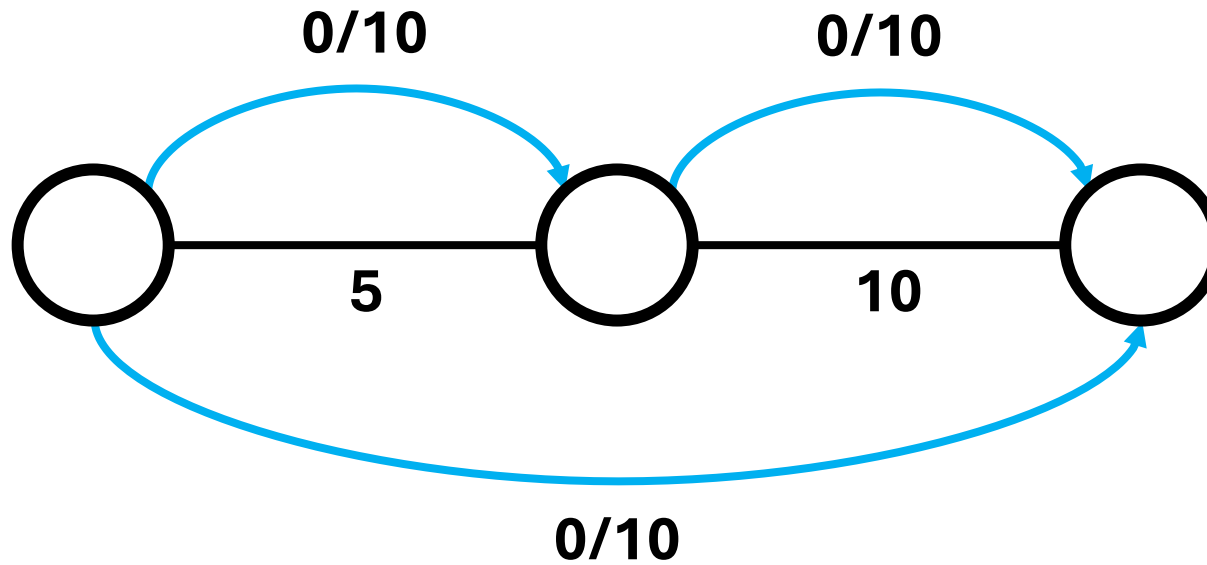
# Max-Min Fairness Allocation Algorithm

Small toy example



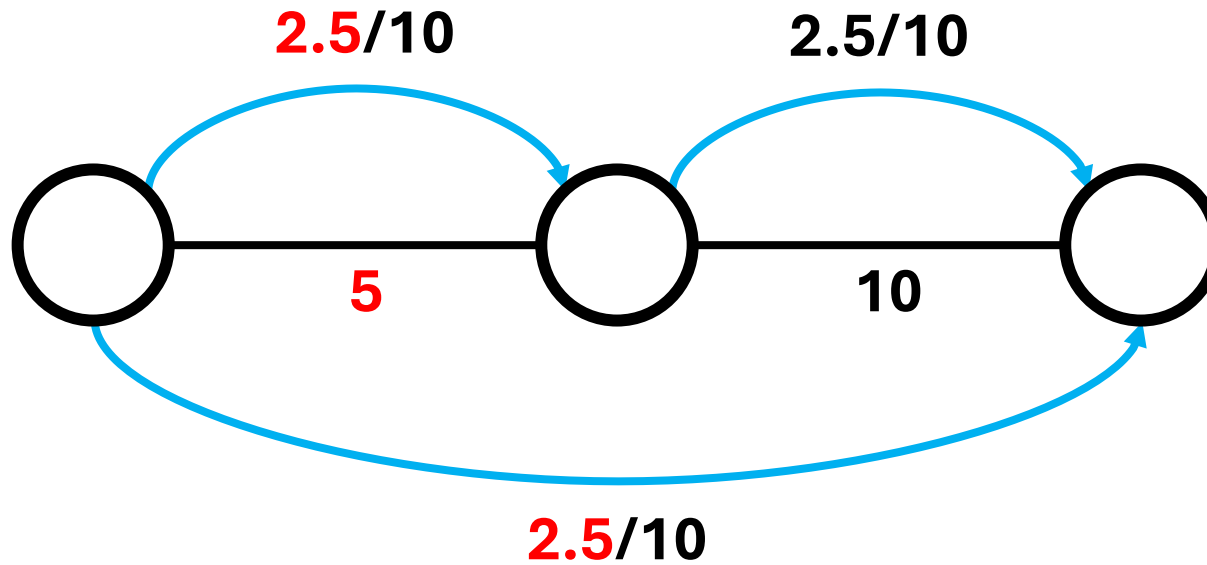
# Max-Min Fairness Allocation Algorithm

Increase all flows equally until you reach the limit of a link



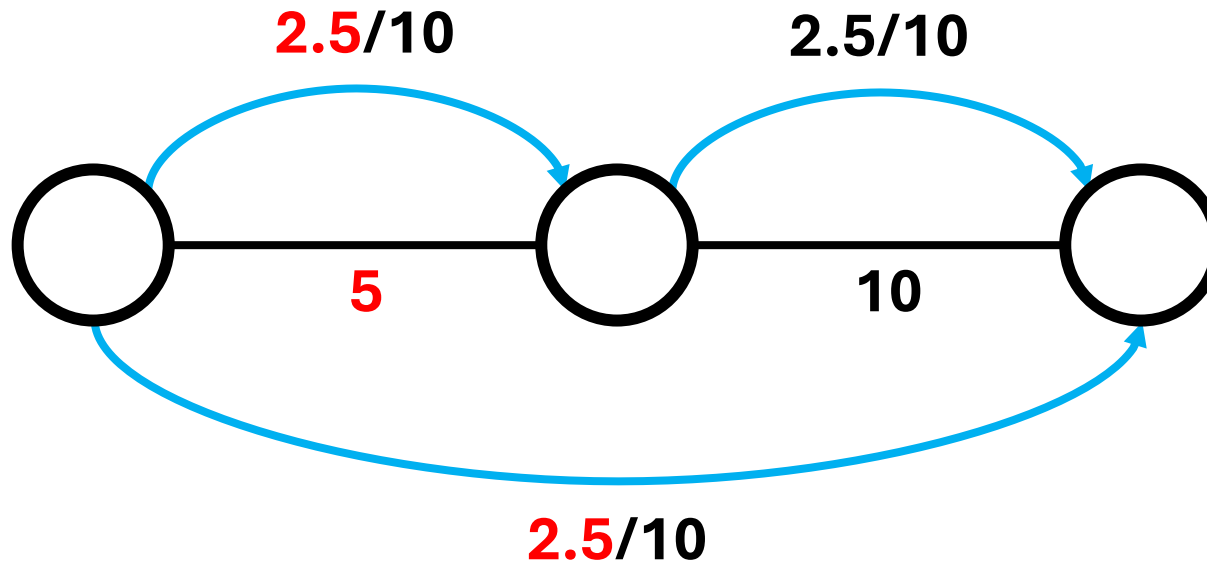
# Max-Min Fairness Allocation Algorithm

Increase all flows equally until you reach the limit of a link



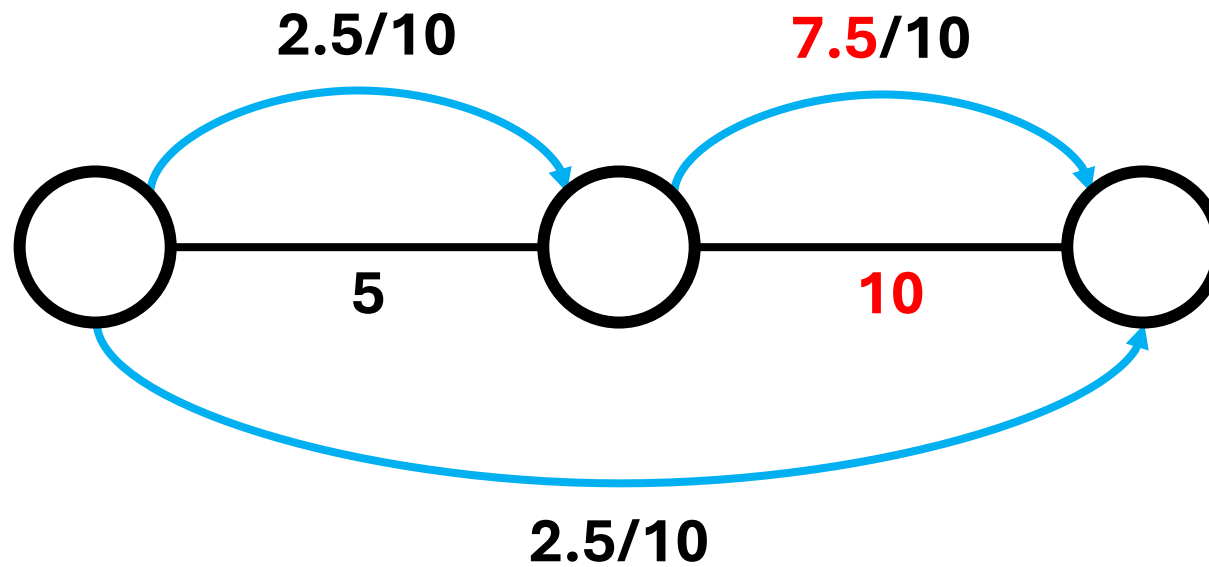
# Max-Min Fairness Allocation Algorithm

Fix all the flows that reached the limit and continue to increase the others



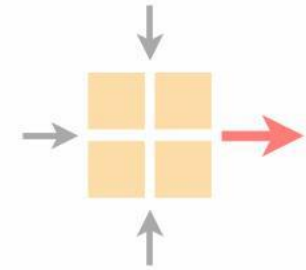
# Max-Min Fairness Allocation Algorithm

Repeat until all flows are limit either by the link capacity or the demand of the flow



# Communication Networks

## Exercise 8



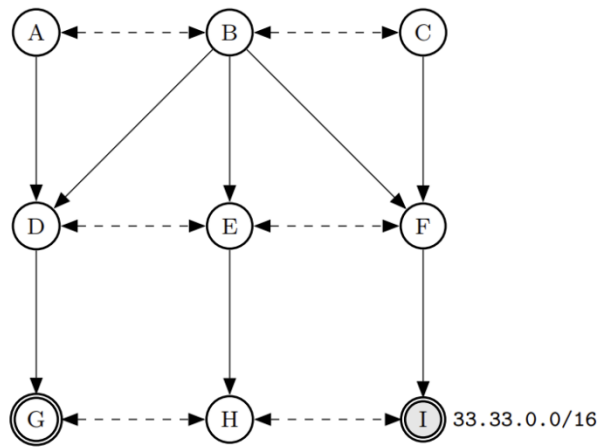
Important lecture topics

**Introduction to this week's  
exercise**

Time to solve the exercise



# Task 8.1 BGP Hijack

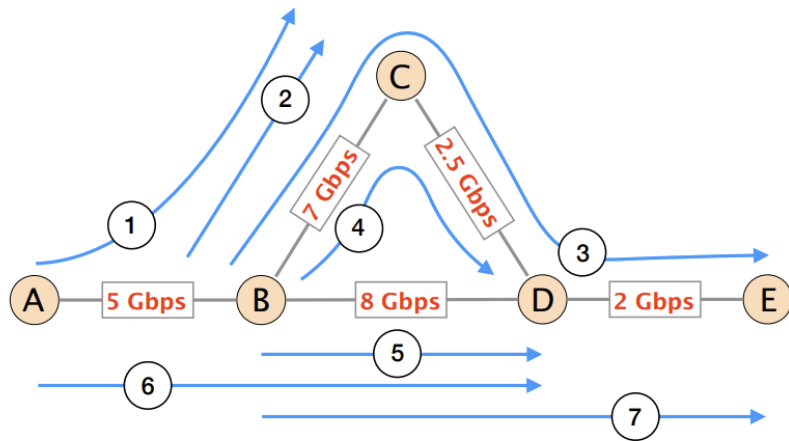


BGP Hijack similar to last week's exercise

## Task 8.2 & 8.3 Reliable Transport Basics

Conceptual questions regarding  
reliable transport and NACKs

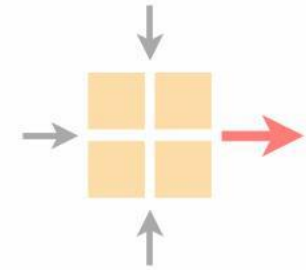
## Task 8.4 Fairness of Bandwidth allocation



Apply max-min fairness algorithm

# Communication Networks

## Exercise 8



Important lecture topics

Introduction to this week's  
exercise

**Time to solve the exercise**