Assignment2:
This is an update of the previous assignment.
The main difference is that now the rules will depend on the TPC port.
The topology is the same but you don't need to limit the link between H1 and the Switch with the TCLink option.

The controller should operate according to the following rules:
- The controller can only install a new rule when a packet first arrives at the switch. The flows cannot be hard coded into the switch.
- All installed rules should have a hard timeout of 50 seconds.
- The controller should install routes in the switch according to the following rules:
  - Data towards H3:
    - Data towards TCP port 30 from H1 should be capped at 50 Mb/s
    - Data towards TCP port 50 from H2 should be capped at 100 Mb/s
    - You need to allow for connections back from H3 to H2 and H1
    - All other ports should be uncapped
  - Data towards H4:
    - Data from H1 and H2 on port 80 should not be capped
    - Data from H3 on port 90 should be capped at 500 Mb/s
    - Any other port should be uncapped
    - You need to allow for connections back from H4 to H3, H2 and H1
  - Data form H1 to H2 and vice versa should not be capped
  - Any other node connection not described above should be blocked. You don't need to install these are rules for this assignment

For simplicity you can allow ARP packets to be forwarded to any destination, but these should not be installed as rules.

You will use two new files to implement this part.
The topology file already has the iperf tests to check the rules are working.