

# NA HW2 Solution

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## 1. CSMA/CD

- Since Switch can transfer the package according to the destination MAC-address instead of broadcasting it like hub, the CSMA/CD is not necessary.
- If a device connecting to the switch is half-duplex, the packages transfer between the link will possibly collide. Thus, CSMA/CD is used in some situation.

## 2. Look Foward to being Fowarder

```
sudo yum install -y openssh-server
sudo systemctl enable sshd; sudo systemctl start sshd
ssh -R 8787:127.0.0.1:22 piepie01@nasa-hw0.csie.org
```

- After finishing the commands above, keep the ssh connection, you can test part C successfully.

## 3. IPerf Everywhere

- Any possible reason that lead to the results will be considered correct.
- For example:  $1 > 4 > 3 > 2$ 
  - Since there's no one else using WiFi, and the nearest switch can forward the packages straightly to the destination, the bandwidth for this part is the highest.
  - .....