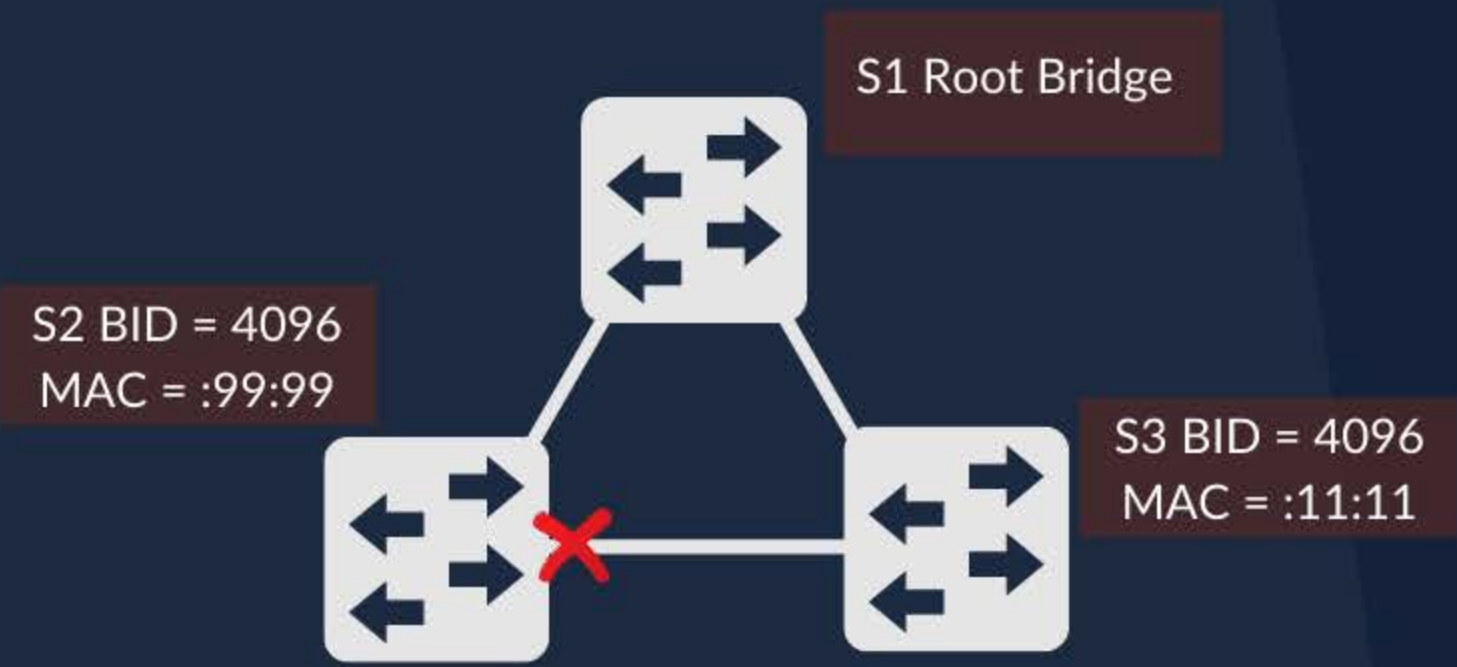# CCNA CHEAT SHEET

STP Blocking Port

Based on MAC

In this case the link between S2 and S3 will be equal to the root. Based on the root election. One of these switches is the "Super" loser. This switch will be the one that has the blocked port

S1 Root Bridge

S2 BID = 4096
MAC = :99:99

S3 BID = 4096
MAC = :11:11

Don't forget Cost

The further away a switch is from the root bridge increases the "Cost" to get to it. Furthest away will have the blocked port. In this instance the cost to the Root is equal.

S1 Root Bridge

S2 Cost to Root Bridge = 19

S3 Cost to Root Bridge = 19

F0/1   F0/2

S4 Cost to Root Bridge = 38

Which interface goes down? Use the same election process between S2 and S3. The interface connecting to the Loser will enter the blocking state.