TEAMS

TEAM	MEMBER 1	MEMBER 2
1	Drew	Max A.
2	Danny	Kyle
3	Josef	Max T.

VLAN Configuration

VLAN 1 is untagged across ports 1 and 2, VLAN 11 is untagged across ports 3 and 4, VLAN 12 is untagged across ports 5 and 6. Ports 8, 9, and 10 are tagged trunk ports.

VLANs

		TRUNK PORTS	1				5				9	
			☐	☐	☐	☐	☐	☐	☐	✓	✓	✓

ID	Name		U untagged	T tagged	E exclude							
1	default	1 → 5 → 9	U	U	E	E	E	E	E	T	T	T
11	VLAN 11	1 → 5 → 9	E	E	U	U	E	E	E	T	T	T
12	VLAN 12	1 → 5 → 9	E	E	E	E	U	U	E	T	T	T

SAME VLANs

These pings should be successful, as both hosts are on the same VLAN.

```
PS C:\Users\drew.williams> ping 10.1.8.12

Pinging 10.1.8.12 with 32 bytes of data:
Reply from 10.1.8.12: bytes=32 time=1ms TTL=128
Reply from 10.1.8.12: bytes=32 time=1ms TTL=128
Reply from 10.1.8.12: bytes=32 time=1ms TTL=128
Reply from 10.1.8.12: bytes=32 time=1ms TTL=128

Ping statistics for 10.1.8.12:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 1ms, Average = 1ms
PS C:\Users\drew.williams> PING ON SAME VLAN
```

This is me pinging Max A. on the same switch through VLAN 1. I was on port 1 and Max on port 2.

```
PS C:\Users\drew.williams> ping 10.1.12.5

Pinging 10.1.12.5 with 32 bytes of data:
Reply from 10.1.12.5: bytes=32 time=1ms TTL=128
Reply from 10.1.12.5: bytes=32 time=2ms TTL=128
Reply from 10.1.12.5: bytes=32 time=1ms TTL=128
Reply from 10.1.12.5: bytes=32 time=1ms TTL=128

Ping statistics for 10.1.12.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 2ms, Average = 1ms
PS C:\Users\drew.williams> PING SAME VLAN DIFFERENT SWITCH
```

This is me pinging Danny on a different switch through VLAN 12. I was on port 6 and Danny on port 6.

DIFFERENT VLAN's

These pings should be unsuccessful, as the hosts are on different VLAN's that are not configured to talk to each other.

```
PS C:\Users\drew.williams> ping 10.1.8.12

Pinging 10.1.8.12 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 10.1.8.12:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PS C:\Users\drew.williams> PING ON DIFFERENT VLAN
```

This is me pinging Max A. on the same switch across VLANs. I am on VLAN 1 plugged into port 2, he is on VLAN 11 plugged into port 4.

```
PS C:\Users\drew.williams> ping 10.1.12.5

Pinging 10.1.12.5 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 10.1.12.5:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PS C:\Users\drew.williams> PING DIFFERENT VLAN DIFFERENT SWITCH
```

This is me pinging Danny on a different switch through across VLANs. I am on VLAN 1 plugged into port 2, he is on VLAN 12 plugged into port 6.