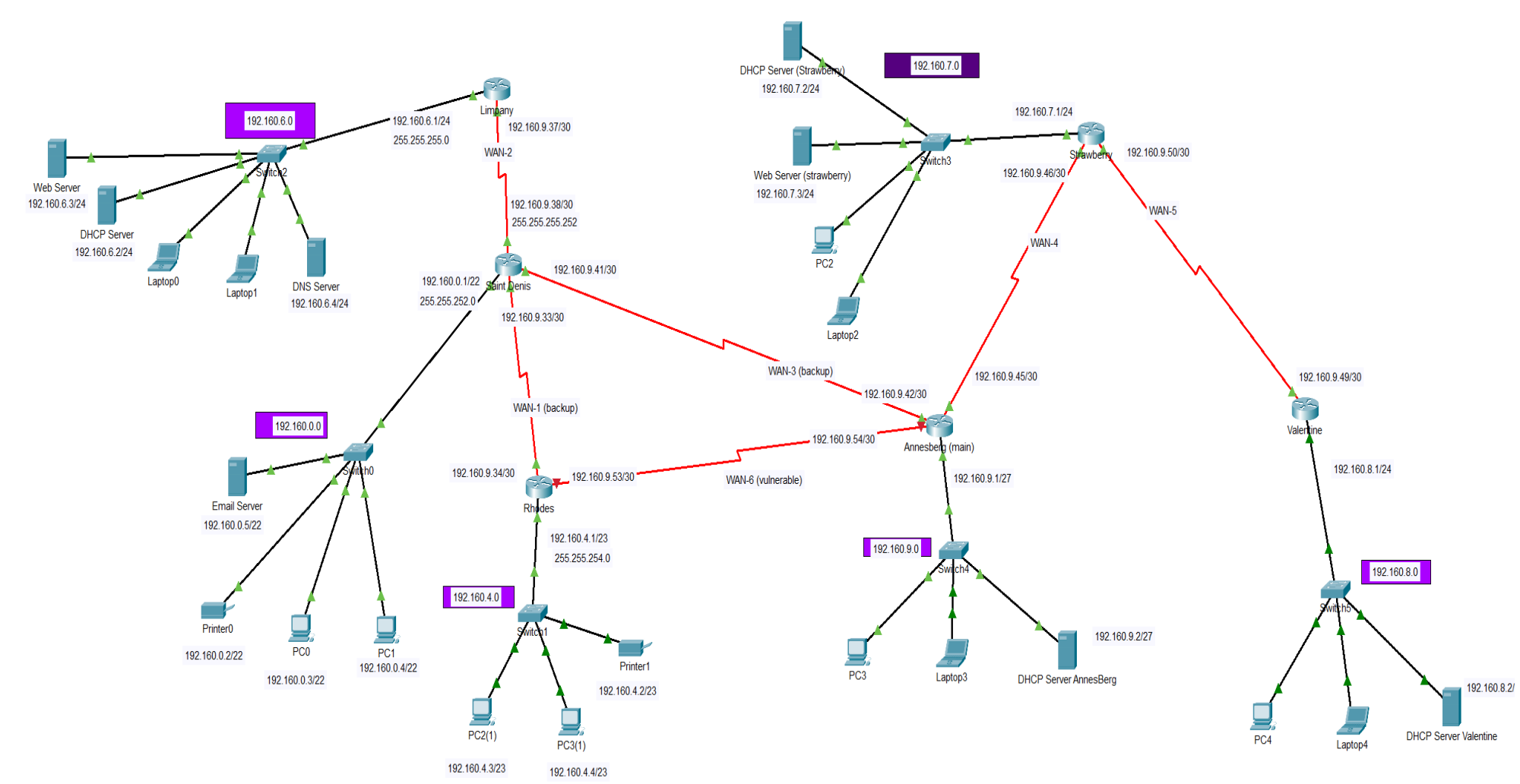


TOPIC 6 GROUP 56	
<i>Name</i>	<i>ID</i>
MD. Shahriar Mim	17101463
Tasin Al Nahian Khan	17201085
MD. Jubayer Islam	16101196
Soumik Mandal	18101149

Device	Interface	IPv4 Address	Subnet Mask	Default Gateway	DNS
Limpany	G0/0	192.160.6.1	255.255.255.0	N/A	N/A
	S0/0/0	192.160.9.37	255.255.255.252		
Web server	F0	192.160.6.3	255.255.255.0	192.160.6.1	192.160.6.4
DHCP Server	F0	192.160.6.2	255.255.255.0	192.160.6.1	192.160.6.4
Laptop0	F0	DHCP assigned	DHCP assigned	DHCP assigned	DHCP assigned
Laptop1	F0	DHCP assigned	DHCP assigned	DHCP assigned	DHCP assigned
DNS Server	F0	192.160.6.4	255.255.255.0	192.160.6.1	192.160.6.4
Saint Denis	G0/0	192.160.0.1	255.255.252.0	N/A	N/A
	S0/0/0	192.160.9.33	255.255.255.252		
	S0/0/1	192.160.9.38	255.255.255.252		
Email Server	F0	192.160.0.5	255.255.252.0	192.160.0.1	0.0.0.0
Printer0	F0	192.160.0.2	255.255.252.0	N/A	N/A
PC0	F0	192.160.0.3	255.255.252.0	192.160.0.1	192.160.6.4
PC1	F0	192.160.0.4	255.255.252.0	192.160.0.1	192.160.6.4
Rhodes	G0/0	192.160.4.1	255.255.254.0	N/A	N/A
	S0/0/0	192.160.9.34	255.255.255.252		
	S0/0/1	192.160.9.53	255.255.255.252		
PC2(1)	F0	192.160.4.3	255.255.254.0	192.160.4.1	192.160.6.4
PC3(1)	F0	192.160.4.4	255.255.254.0	192.160.4.1	192.160.6.4
Printer1	F0	192.160.4.2	255.255.254.0	N/A	N/A
Annesberg	G0/0	192.160.9.1	255.255.255.224	N/A	N/A
	S0/0/0	192.160.9.45	255.255.255.252	N/A	N/A
	S0/0/1	192.160.9.42	255.255.255.252	N/A	N/A
	S0/1/0	192.160.9.54	255.255.255.252	N/A	N/A
PC3	F0	DHCP assigned	DHCP assigned	DHCP assigned	DHCP assigned
Laptop3	F0	DHCP assigned	DHCP assigned	DHCP assigned	DHCP assigned
DHCP Server Annesberg	F0	192.160.9.2	255.255.255.224	192.160.9.1	192.160.6.4
Strawberry	G0/0	192.160.7.1	255.255.255.0	N/A	N/A
	S0/0/0	192.160.9.46	255.255.255.252	N/A	N/A
	S0/0/1	192.160.9.50	255.255.255.252	N/A	N/A
DHCP Server Strawberry	F0	192.160.7.2	255.255.255.0	192.160.7.1	192.160.6.4
Web Server Strawberry	F0	192.160.7.3	255.255.255.0	192.160.7.1	192.160.6.4
PC2	F0	DHCP assigned	DHCP assigned	DHCP assigned	DHCP assigned

Laptop2	F0	DHCP assigned	DHCP assigned	DHCP assigned	DHCP assigned
Valentine	G0/0	192.160.8.1	255.255.255.0	N/A	N/A
	S0/0/0	192.160.9.49	255.255.255.252	N/A	N/A
PC4	F0	DHCP assigned	DHCP assigned	DHCP assigned	DHCP assigned
Laptop4	F0	DHCP assigned	DHCP assigned	DHCP assigned	DHCP assigned
DHCP Server Valentine	F0	192.160.8.2	255.255.255.0	192.160.8.1	192.160.6.4

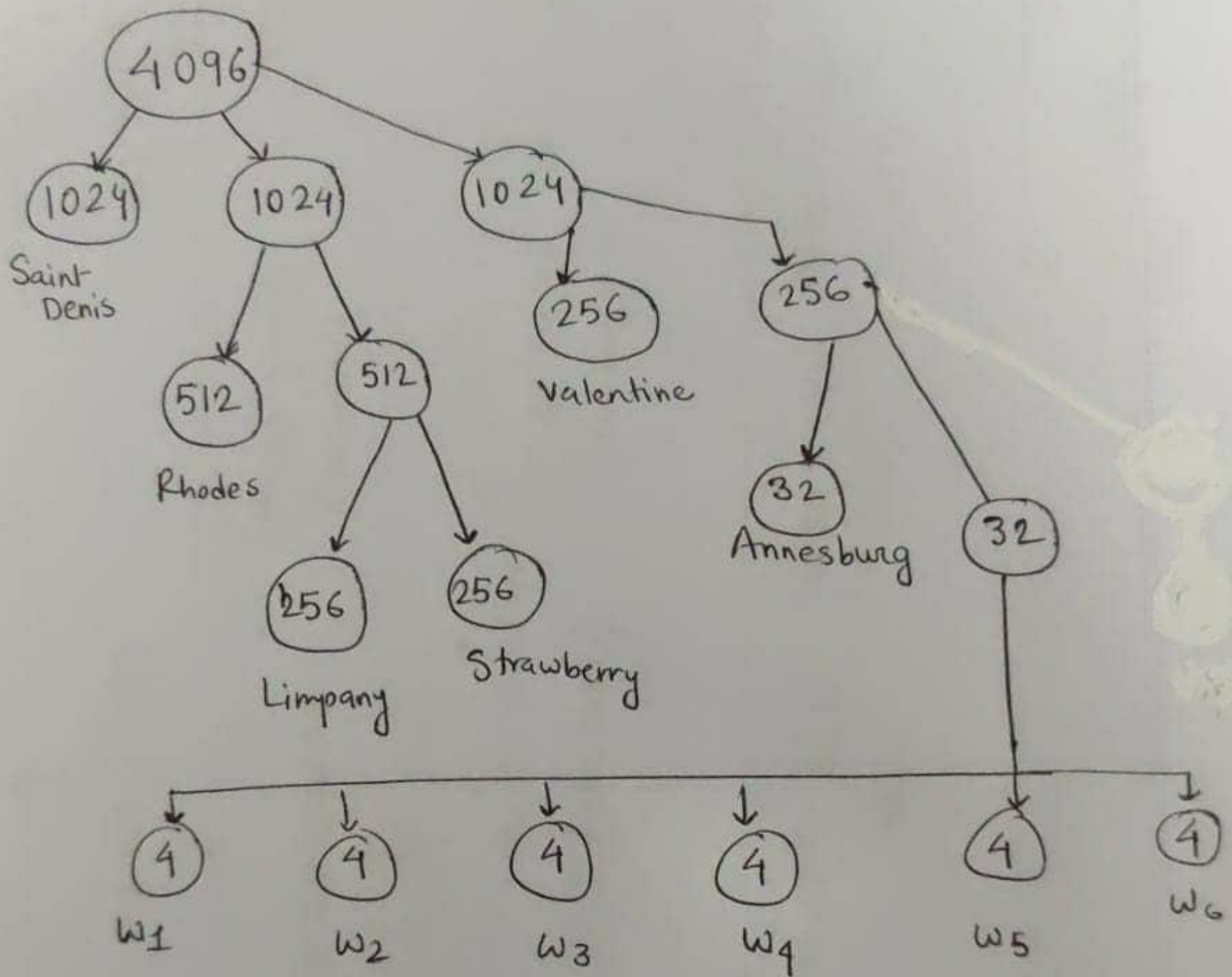
Topology:

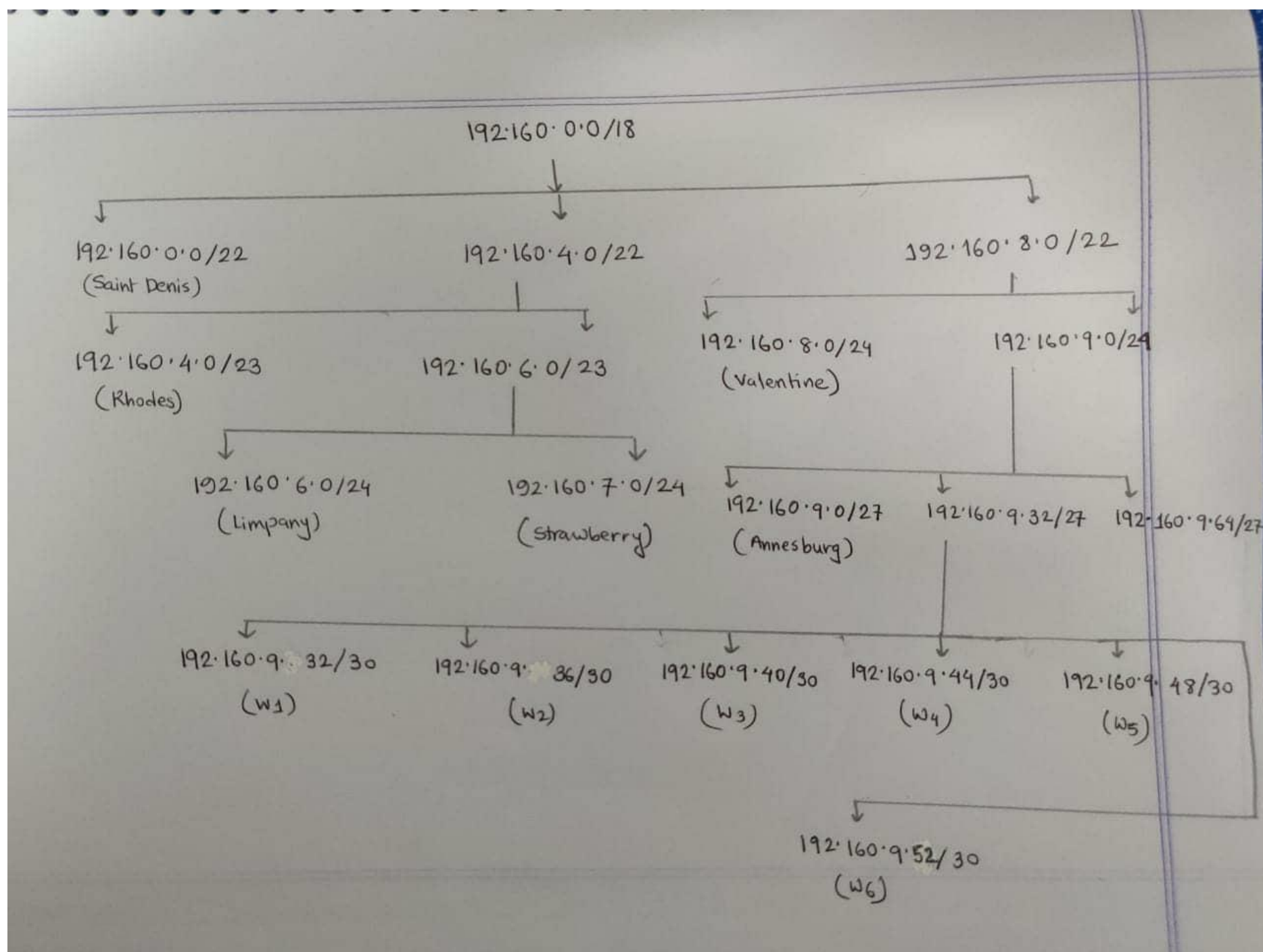


Table

#	Host	IPs	Given	H.B	N.B
Saint Denis	526	528	1024	10	22
Rhodes	312	314	512	9	23
Limpany	238	240	256	8	24
Strawberry	156	158	256	8	24
Valentine	128	130	256	8	24
Annesburg	30	32	32	5	27
W ₁	2	4	4	2	30
W ₂	2	4	4	2	30
W ₃	2	4	4	2	30
W ₄	2	4	4	2	30
W ₅	2	4	4	2	30
W ₆	2	4	4	2	30

Network = 192.160.0.0/18





Commands:

For router Saint Denis:

Router>enable

Router#

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface GigabitEthernet0/0

Router(config-if)#ip address 192.160.0.1 255.255.252.0

Router(config-if)#no shutdown

// Configured connection from switch to router!!

Router(config)#interface Serial0/0/0

Router(config-if)#ip address 192.160.9.33 255.255.255.252

Router(config-if)#no shutdown

// Configured connection from st. denis to rhodes!!

Router(config)# ip route 192.160.4.0 255.255.254.0 192.160.9.32

// Added in St. Denis's routing table address of Rhodes

Router(config)#interface Serial0/0/1

Router(config-if)#ip address 192.160.9.38 255.255.255.252

Router(config-if)#no shutdown

// serial port 0/0/1 configured

Router(config)#interface Serial0/1/0

Router(config-if)#ip address 192.160.9.41 255.255.255.252

Router(config-if)#no shutdown

// serial port 0/1/0 configured

```
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 192.160.6.0
Router(config-router)#network 192.160.9.0
Router(config-router)#network 192.160.0.0
Router(config-router)#network 192.160.4.0
Router(config-router)#network 192.160.8.0
```

// RIP Version 2 Configuration

For Router Rhodes:

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip address 192.160.4.1 255.255.254.0
Router(config-if)#no shutdown
// Configured connection from switch to router!!
Router(config)#interface Serial0/0/0
Router(config-if)# ip address 192.160.9.34 255.255.255.252
Router(config-if)#no shutdown
// Configured connection from rhodes to st Denis!!
```

```
Router(config)#ip route 192.160.0.0 255.255.252.0 192.160.9.33
// Added in Rhodes router table address of St. Denis's
```

```
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 192.160.6.0
Router(config-router)#network 192.160.9.0
Router(config-router)#network 192.160.0.0
Router(config-router)#network 192.160.4.0
Router(config-router)#network 192.160.8.0
// RIP Version 2 Configuration
```

For Limpany Router:

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip address 192.160.6.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
// getaway configured
```

```
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 192.160.9.37 255.255.255.252
Router(config-if)#no shutdown
//serial port configured
```

```
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 192.160.6.0
Router(config-router)#network 192.160.9.0
Router(config-router)#network 192.160.0.0
Router(config-router)#network 192.160.4.0
Router(config-router)#network 192.160.8.0
// RIP Version 2 Configuration
```

For Router Strawberry:

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip address 192.160.7.1 255.255.255.0
Router(config-if)#no shutdown
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 192.160.9.46 255.255.255.252
Router(config-if)#no shutdown
//serial port configured
```

```
Router(config)#interface Serial0/0/1
Router(config-if)#ip address 192.160.9.50 255.255.255.252
Router(config-if)#no shutdown
Router(config-if)#
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 192.160.6.0
Router(config-router)#network 192.160.9.0
Router(config-router)#network 192.160.0.0
Router(config-router)#network 192.160.4.0
Router(config-router)#network 192.160.8.0
```

For Router AnnesBerg:

```
Router>enable
Router#
Router#configure terminal
Router#interface GigabitEthernet0/0
Router(config-if)#ip address 192.160.9.1 255.255.255.224
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
```

```
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 192.160.9.45 255.255.255.252
Router(config-if)#no shutdown
```

```
Router(config)#interface Serial0/0/1
Router(config-if)#ip address 192.160.9.42 255.255.255.252
Router(config-if)#no shutdown
```

```
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 192.160.6.0
Router(config-router)#network 192.160.9.0
Router(config-router)#network 192.160.0.0
```

```
Router(config-router)#network 192.160.4.0
Router(config-router)#network 192.160.8.0
// RIP Version 2 Configuration
```

For Router Valentine:

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 192.160.6.0
Router(config-router)#network 192.160.9.0
Router(config-router)#network 192.160.0.0
Router(config-router)#network 192.160.4.0
Router(config-router)#network 192.160.8.0
Router(config-router)#exit
// Rip V2 configuration
```

```
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip address 192.160.8.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
```

```
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 192.160.9.49 255.255.255.252
Router(config-if)#no shutdown
```