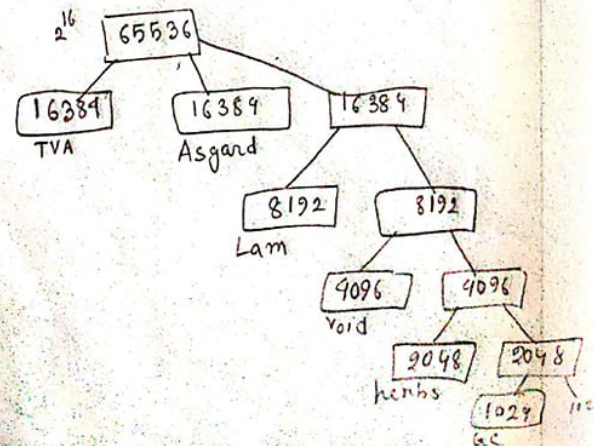


192.168.0.0 /16

Name	host	D. host	IP	Give	.HB	NB
TVA Head. q	7112	19229	19226	16389	19	18
Asgard	4250	8500	8502	16389	19	18
Lamentis	3829	7658	7660	8192	13	19
The void	1290	2480	2982	4096	12	20
Herbs house	1020	2090	2042	2048	11	21
Gulf Coast	511	1022	1029	1029	10	22



17

192.168.0.0/16

192.168.0.0/18

TVA Head quarter

192.168.64.0/18

Asgard

192.168.128.0/18

192.168.128.0/19

Lamenties 1

192.168.160.0/19

192.168.160.0/20

The void

192.168.176.0/20

192.168.176.0/21

Herbs house

192.168.184.0/21

192.168.184.0/22

Grault Coast

Device	Interface	IP address	Subnet Mask	Default Gateway
Gulf Coast	FastEthernet0/0	192.168.184.1	255.255.252.0	N/A
	FastEthernet0/1	192.168.184.2	255.255.240.0	
	Serial0/0	172.19.1.1	255.255.255.0	
	Serial0/1	172.18.1.2	255.255.255.0	
Herb's House	FastEthernet0/0	192.168.176.21	255.255.248.0	N/A
	FastEthernet0/1	192.168.0.5	255.255.192.0	
	Serial0/0	172.19.1.2	255.255.255.0	
	Serial0/1	172.19.2.1	255.255.255.0	
Asgard	FastEthernet0/0	192.168.64.1	255.255.192.0	N/A
	Serial0/0	172.18.1.1	255.255.255.0	
	Serial0/1	172.17.1.3	255.255.255.0	
Lamentis	FastEthernet0/0	192.168.128.31	255.255.224.0	N/A
	Serial0/0	172.19.2.2	255.255.255.0	
	Serial0/1	172.21.0.1	255.255.255.0	
TVA Headquarter	FastEthernet0/0	192.168.0.1	255.255.192.0	N/A
	FastEthernet0/1	172.17.2.1	255.255.255.0	
	Serial0/0	172.17.1.2	255.255.255.0	
	Serial0/1	172.16.0.1	255.255.255.0	
The Void	FastEthernet0/0	1.0.0.1	255.255.255.0	N/A
	FastEthernet0/1	192.168.160.1	255.255.255.0	
	Serial0/0	172.16.0.2	255.255.255.0	
	Serial0/1	172.21.0.2	255.255.255.0	

TVA Headquareter:

```
Router>en
```

```
Router#config t
```

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

```
Router(config)#int f0/0
```

```
Router(config-if)#ipaddress 192.168.0.100 255.255.192.0
```

```
^
```

% Invalid input detected at '^' marker.

```
Router(config-if)#ip address 192.168.0.100 255.255.192.0
```

```
Router(config-if)#no shut
```

```
Router(config-if)#
```

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

```
exit
```

```
Router(config)#int s0/0
```

```
Router(config-if)#ip address 192.168.64.2 255.255.192.0
```

```
Router(config-if)#no shut
```

%LINK-5-CHANGED: Interface Serial0/0, changed state to down

```
Router(config-if)#exit
```

```
Router(config)#exit
```

```
Router(config)#int s0/1
```

```
Router(config-if)#ip address 192.168.160.23 255.255.240.0
```

```
Router(config-if)#no shut
```

```
Router(config)#int f0/1
```

```
Router(config-if)#ip address 192.168.176.5 255.255.248.0
```

```
Router(config-if)#no shut
```

Asgard:

```
Router(config)#int f0/0
```

```
Router(config-if)#ip address 192.168.64.100 255.255.192.0
```

```
Router(config-if)#no shut
```

```
Router(config)#int s0/1
```

```
Router(config-if)#ip address 192.168.0.14 255.255.192.0
```

```
Router(config-if)#no shut
```

```
Router(config)#int s0/0
```

```
Router(config-if)#ip address 192.168.184.1 255.255.252.0
```

```
Router(config-if)#no shut
```

The VOID:

```
Router(config)#int f0/1
```

```
Router(config-if)#ip address 192.168.160.1 255.255.240.0
```

```
Router(config-if)#no shut
```

```
Router(config-if)#exit
```

```
Router(config)#int s0/0/0
Router(config-if)#ip address 192.168.0.112 255.255.192.0
Router(config-if)#no shut
Router(config)#int s0/0/1
Router(config-if)#ip address 192.168.128.50 255.255.224.0
Router(config-if)#no shut
Router(config)#int f0/0
Router(config-if)#ip address 192.168.160.27 255.255.240.0
Router(config-if)#no shut
```

Gulf coast:

```
Router(config)#int f0/0
Router(config-if)#ip address 192.168.184.12 255.255.252.0
Router(config-if)#no shut
Router(config)#int s0/1
Router(config-if)#ip address 192.168.64.15 255.255.252.0
Router(config-if)#no shut
Router(config)#int s0/0
Router(config-if)#ip address 192.168.176.1 255.255.248.0
Router(config-if)#no shut
```

Herb's House:

```
Router(config)#int f0/0
Router(config-if)#ip address 192.168.176.21 255.255.248.0
Router(config-if)#no shut
Router(config)#int s0/0
Router(config-if)#ip address 192.168.184.22 255.255.252.0
Router(config-if)#no shut
Router(config-if)#exit
Router(config)#int s0/1
Router(config-if)#ip address 192.168.128.55 255.255.224.0
Router(config-if)#no shut
Router(config)#int f0/1
Router(config-if)#ip address 192.168.0.5 255.255.192.0
Router(config-if)#no shut
Router(config-if)#exit
```

Lamentia:

```
Router(config)#int s0/0
Router(config-if)#ip address 192.168.176.15 255.255.248.0
Router(config-if)#no shut
Router(config)#int f0/0
Router(config-if)#ip address 192.168.128.31 255.255.224.0
Router(config-if)#no shut
Router(config)#int s0/1
Router(config-if)#ip address 192.168.160.25 255.255.240.0
Router(config-if)#no shut
```

The HQ:

```
Router(config)#int s0/0
Router(config-if)#ip address 172.17.1.2 255.255.255.0
Router(config-if)#no shut
```

Asgard:

```
Router(config)#int s0/1
Router(config-if)#ip address 172.17.1.3 255.255.255.0
Router(config-if)#no shut
Router(config-if)#
ASGARD(config)#int s0/0
ASGARD(config-if)#ip address 172.18.1.1 255.255.255.0
ASGARD(config-if)#no shut
```

The VOID

:

```
Router(config)#int s0/0/0
Router(config-if)#ip address 172.16.0.2 255.255.255.0
Router(config-if)#no shut
TheVoid(config)#int s0/0/1
TheVoid(config-if)#ip address 172.21.0.2 255.255.255.0
TheVoid(config-if)#no shut
TheVoid(config)#int f0/0
TheVoid(config-if)#ip address 1.0.0.1 255.255.255.0
TheVoid(config-if)#no shut
```

Gulf Coast:

```
Router(config)#int s0/1
Router(config-if)#ip address 172.18.1.2 255.255.255.0
Router(config-if)#no shut
GulfCoast(config)#int s0/0
GulfCoast(config-if)#ip address 172.19.1.1 255.255.255.0
GulfCoast(config-if)#no shut
```

```
Herb'sHouse(config)#int s0/0
Herb'sHouse(config-if)#ip address 172.19.1.2 255.255.255.0
Herb'sHouse(config-if)#no shut
Herb'sHouse(config)#int s0/1
Herb'sHouse(config-if)#ip address 172.19.2.1 255.255.255.0
Herb'sHouse(config-if)#no shut
Herb'sHouse(config-if)#exit
```

```
Lamentis(config)#int s0/0
Lamentis(config-if)#ip address 172.19.2.2 255.255.255.0
```

```
Lamentis(config-if)#no shut
Lamentis(config)#int s0/1
Lamentis(config-if)#ip address 172.21.0.1 255.255.255.0
Lamentis(config-if)#no shut
```

```
TVA(config)#router rip
TVA(config-router)#version 2
TVA(config-router)#no auto
TVA(config-router)#no auto-summary
TVA(config-router)#net
TVA(config-router)#network 172.17.1.0
TVA(config-router)#network 192.168.0.0
TVA(config-router)#exit
```

```
ASGARD(config)#router rip
ASGARD(config-router)#version 2
ASGARD(config-router)#no auto-summary
ASGARD(config-router)#network 172.17.1.0
ASGARD(config-router)#network 192.168.64.0
ASGARD(config-router)#exit
ASGARD(config)#int f0/0
ASGARD(config-if)#ip helper-address 172.17.1.2
ASGARD(config-if)#
ASGARD(config-if)#exit
ASGARD(config)#router rip
ASGARD(config-router)#version2
^
```

```
% Invalid input detected at '^' marker.
ASGARD(config-router)#version 2
ASGARD(config-router)#no auto-summary
ASGARD(config-router)#network 172.17.1.0
ASGARD(config-router)#network 192.168.64.0
ASGARD(config-router)#exit
```

```
TVA(config)#ip dhcp pool Net1
TVA(dhcp-config)#network 192.168.0.0 255.255.192.0
TVA(dhcp-config)#def
TVA(dhcp-config)#default-router 192.168.0.1
TVA(dhcp-config)#
TVA(dhcp-config)#exit
```

```
TVA(config)#ip dhcp pool Net1
TVA(dhcp-config)#dns-server 192.168.0.2
```

```
TVA(dhcp-config)#exit
TVA(config)#%DHCPD-4-PING_CONFLICT: DHCP address conflict: server pinged
192.168.0.2.
```

```
TVA(config)#ip dhcp pool Net2
TVA(dhcp-config)#network 192.168.64.0 255.255.192.0
TVA(dhcp-config)#def
TVA(dhcp-config)#default-router 192.162.64.1
TVA(dhcp-config)#dns-server 192.168.0.2
```

```
TVA(config)#ip dhcp pool Net3
TVA(dhcp-config)#net
TVA(dhcp-config)#network 192.168.160.0 255.255.240.0
TVA(dhcp-config)#def
TVA(dhcp-config)#default-router 192.168.160.1
TVA(dhcp-config)#dns
TVA(dhcp-config)#dns-server 192.168.0.2
TVA(dhcp-config)#
```

```
TheVoid(config)#int f0/1
TheVoid(config-if)#ip helper-address 172.16.0.1
TheVoid(config-if)#exit
```

IP configuration:

```
Lamentis(config)#ip route 0.0.0.0 0.0.0.0 s0/1
Herb'sHouse(config)#ip route 0.0.0.0 0.0.0.0 s0/1
GulfCoast(config)#ip route 0.0.0.0 0.0.0.0 s0/1
```

Router:

```
Router(config-if)#ip address 172.17.2.2 255.255.255.0
Router(config-if)#no shut
```

Routing:

```
GulfCoast(config)#ip route 192.168.0.0 255.255.192.0 s0/1
GulfCoast(config)#ip route 192.168.64.0 255.255.192.0 s0/1
```


NAT:

Router>en

Router#conf t

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

Router(config)#int f0/0

Router(config-if)#ip nat out

Router(config-if)#int f0/1

Router(config-if)#ip nat inside

Router(config-if)#ip nat inside source static 10.0.0.240 209.165.100.29

Router(config)#exit

Routing:

```
GulfCoast(config)#router rip
GulfCoast(config-router)#version 2
GulfCoast(config-router)#no auto
GulfCoast(config-router)#no auto-summary
GulfCoast(config-router)#network 172.18.1.0
GulfCoast(config-router)#network 172.19.1.0
GulfCoast(config-router)#network 192.168.184.0
GulfCoast(config-router)#exit
GulfCoast(config)#exit
```

```
ASGARD(config-router)#version 2
ASGARD(config-router)#no auto
ASGARD(config-router)#no auto-summary
ASGARD(config-router)#network 172.18.1.0
ASGARD(config-router)#exit
ASGARD(config)#
ASGARD(config)#exit
```

```
Herb'sHouse(config)#router rip
Herb'sHouse(config-router)#version 2
Herb'sHouse(config-router)#no auto
Herb'sHouse(config-router)#no auto-summary
Herb'sHouse(config-router)#net
Herb'sHouse(config-router)#network 192.168.176.0
Herb'sHouse(config-router)#network 172.19.1.0
Herb'sHouse(config-router)#network 172.19.2.0
Herb'sHouse(config-router)#exit
Herb'sHouse(config)#
Herb'sHouse(config)#exit
```

```
Lamentis(config)#router rip
Lamentis(config-router)#version 2
Lamentis(config-router)#no auto summary
```

```
Lamentis(config-router)#network 172.19.2.0
Lamentis(config-router)#network 172.21.0.0
Lamentis(config-router)#network 192.168.128.0
Lamentis(config-router)#exit
Lamentis(config)#exit
```