### **Assumptions:**

- 1. Population of Lotus city 2000, so host size is 2048.
- 2. Since Brazil-China and Norway-Russia can not connect with the same router, that's why we made the network of Brazil-China with the USA and Norway-Russia with the Lotus Committee Router.
- 3. Since Russia and China are not in the same network, we are assuming that there exists only one server and we are assuming it to be in Russia's LAN network.
- 4. Lotus committee members can access superhero support web, we added dns server to the lotus committee lan.
- 5. Since there should be a floating path between Lotus and Russia via Norway, we are assuming it is, from Russia to Lotus via Norway.
- 6. We are assuming that our main priority is to connect the superhero networks to the lotus committee network.

### **VLSM Details:**

Name	Host	+2	IP	H Bit	N Bit
China	1025	1027	2048	11	21
Lotus City	2000	2002	2048	11	21
Russia	511	513	1024	10	22
USA	434	436	512	9	23
Norway	297	299	512	9	23
Brazil	50	52	64	6	26
Lotus Committee	17	19	32	5	27
WAN 1	2	4	4	2	30

WAN 2	2	4	4	2	30
WAN 3	2	4	4	2	30
WAN 4	2	4	4	2	30
WAN 5	2	4	4	2	30
WAN 6	2	4	4	2	30
WAN 7	2	4	4	2	30

2048+2048+1024+512+512+64+32+(4\*7)= 6268

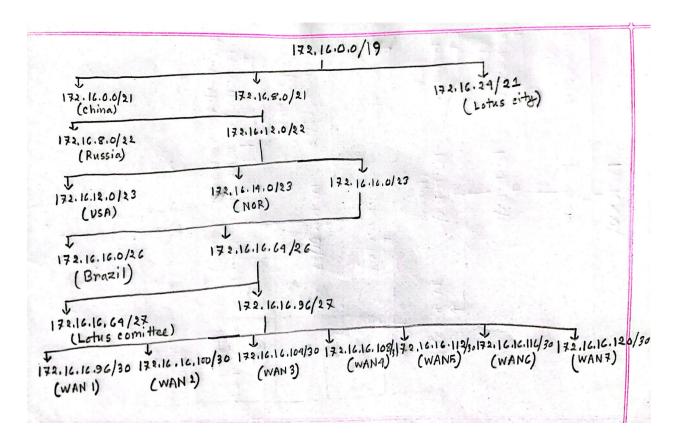
So,  $2^x = 6268$ 

X = log2(6268)

X = 12.614

So, Number of total host 13

Now, Subnet mask initially (32-13) = 19



# Addressing Table:

Device	Interface	IP Address	Subnet Mask	Default Gateway
Brazil	FastEthernet0/0	172.16.16.1	255.255.255.192	
				N/A
				14//
	Serial2/0	172.16.16.97	255.255.255.252	
China	FastEthernet0/0	172.16.0.1	255.255.248.0	
				N/A
	Serial2/0	172.16.17.102	255.255.255.252	
Norway	FastEthernet0/0	172.16.14.1	255.255.254.0	
				N/A
	Serial2/0	172.16.16.110	255.255.255.252	
	Serial3/0	172.16.16.113	255.255.255.252	
USA	FastEthernet0/0	172.16.12.1	255.255.254.0	
				NI/A
				N/A
	Serial2/0	172.16.16.98	255.255.255.252	
	0 : 10/0	170 40 40 404	055 055 055	
	Serial3/0	172.16.16.101	255.255.255.252	
	Serial6/0	172.16.16.105	255.255.255.252	
Russia	FastEthernet0/0	172.16.8.1	255.255.252.0	
				N/A
				IN/A
	Serial2/0	172.16.16.114	255.255.255.252	
	   Serial3/0	172.16.16.117	255.255.255.252	
	Jenaio/U	172.10.10.117	200.200.200.202	

Lotus Committee	FastEthernet0/0	172.16.16.65	255.255.255.224	
				NI/A
				N/A
	Serial2/0	172.16.16.106	255.255.255.252	
	Serial3/0	172.16.16.118	255.255.255.252	
	Serial6/0	172.16.16.109	255.255.255.252	
	Serial7/0	172.16.16.121	255.255.255.252	
Lotus	FastEthernet0/0	172.16.24.1	255.255.248.0	
				N/A
				IN/A
	Serial2/0	172.16.16.122	255.255.255.252	
Lotus committee	FastEthernet0/0	172.16.16.67	255.255.255.224	172.16.16.65
DNS				
PC1	FastEthernet0/0	172.16.16.66	255.255.255.224	172.16.16.65
PC2	FastEthernet0/0	172.16.16.3	255.255.255.192	172.16.16.1
PC3	FastEthernet0/0	172.16.0.4	255.255.248.0	172.16.0.1
PC4	FastEthernet0/0	172.16.8.3	255.255.252.0	172.16.8.1
PC5	FastEthernet0/0	172.16.14.3	255.255.254.0	172.16.14.1
PC6	FastEthernet0/0	172.16.12.3	255.255.254.0	172.16.12.1
Brazil DHCP	FastEthernet0/0	172.16.16.2	255.255.255.192	172.16.16.1
China DHCP	FastEthernet0/0	172.16.0.2	255.255.248.0	172.16.0.1
Norway DHCP	FastEthernet0/0	172.16.14.2	255.255.254.0	172.16.14.1
USA DHCP	FastEthernet0/0	172.16.12.2	255.255.254.0	172.16.12.1
Russia DHCP	FastEthernet0/0	172.16.8.2	255.255.252.0	172.16.8.1
Russia mail	FastEthernet0/0	172.16.8.4	255.255.252.0	172.16.8.1
server				
DNS Server	FastEthernet0/0	172.16.24.2	255.255.248.0	172.16.24.1
SuperHero	FastEthernet0/0	172.16.24.3	255.255.248.0	172.16.24.1
Support Web				

### Commands:

# **DHCP Configuration:**

Router China

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface FastEthernet0/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface FastEthernet0/0

Router(config-if)#ip address 172.16.0.1 255.255.0.0

Router(config-if)#ip address 172.16.0.1 255.255.248.0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface FastEthernet0/0

Router(config-if)#ip address 172.16.0.1 255.255.248.0

Router(config-if)#no shutdown

Router(config-if)#

Router#en

Router#wr

Router Brazil

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface FastEthernet0/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface FastEthernet0/0

Router(config-if)#ip address 172.16.16.1 255.255.0.0

Router(config-if)#ip address 172.16.16.1 255.255.255.192

Router(config-if)#no shutdown

Router(config-if)#

Router(config-if)#en

% Ambiguous command: "en"

Router(config)#exit

Router#

%SYS-5-CONFIG\_I: Configured from console by console

en

Router#wr

Building configuration...

[OK]

Router#

Router USA

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface FastEthernet0/0

Router(config-if)#ip address 172.16.12.1 255.255.254.0

Router(config-if)#no shutdown

Router(config-if)#

Router(config)#exit

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

**Router Norway** 

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface FastEthernet0/0

Router(config-if)#ip address 172.16.14.1 255.255.0.0

Router(config-if)#ip address 172.16.14.1 255.255.254.0

Router(config-if)#no shutdown

Router(config-if)#

Router(config-if)#exit

Router(config)#exit

Router#wr

Building configuration...

[OK]

Router Russia

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface FastEthernet0/0

Router(config-if)#ip address 172.16.8.1 255.255.0.0

Router(config-if)#no ip address

Router(config-if)#

Router(config-if)#exit

Router(config)#interface FastEthernet0/0

Router(config-if)#

Router(config-if)#

Router(config-if)#exit

Router(config)#interface FastEthernet0/0

Router(config-if)#ip address 172.16.8.1 255.255.0.0

Router(config-if)#ip address 172.16.8.1 255.255.252.0

Router(config-if)#no shutdown

Router(config-if)#

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

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG I: Configured from console by console

Router#wr

Building configuration...

[OK]

### **STARTING WAN Connection**

WAN 1. BRAZIL->USA

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface Serial2/0

Router(config-if)#ip address 172.16.16.97 255.255.255.192

Router(config-if)#ip address 172.16.16.97 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial2/0

Router(config-if)#ip address 172.16.16.97 255.255.255.252

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

Router#

**USA-> BRAZIL** 

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface Serial2/0

Router(config-if)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up ip address 172.16.16.98 255.255.254.0

Router(config-if)#ip address 172.16.16.98 255.255.255.252

Router(config-if)#ip address 172.16.16.98 255.255.255.252

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

#### WAN 2 USA->CHINA

Router#

Router#configure terminal

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

Router(config)#interface Serial2/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial3/0

Router(config-if)#ip address 172.16.16.101 255.255.255.252

Router(config-if)#ip address 172.16.16.101 255.255.255.252

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

CHINA->USA

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface Serial2/0

Router(config-if)#ip address 172.16.16.102 255.255.248.0

Router(config-if)#ip address 172.16.16.102 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Router(config-if)#exit

Router(config)#exit

# %SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

#### WAN 3 USA-> LOTUS COMMITTEE

Router#

Router#configure terminal

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

Router(config)#interface Serial3/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial6/0

Router(config-if)#ip address 172.16.16.105 255.255.255.252

Router(config-if)#ip address 172.16.16.105 255.255.255.252

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

### LOTUS COMMITTEE-> USA

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface Serial2/0

Router(config-if)#ip address 172.16.16.106 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface Serial2/0, changed state to up

Router(config-if)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

exit

Router(config)#exit

## %SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

#### WAN 4 LOTUS COMITTE->NORWAY

Router#configure terminal

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

Router(config)#interface Serial2/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial6/0

Router(config-if)#ip address 172.16.16.109 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG I: Configured from console by console

wr

Building configuration...

[OK]

Router#

### NORWAY->LOTUS COMITTEE

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface Serial2/0

Router(config-if)#no ip address

Router(config-if)#

Router(config-if)#

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial2/0

Router(config-if)#ip address 172.16.16.110 255.255.254.0

Router(config-if)#ip address 172.16.16.110 255.255.255.252

Router(config-if)#

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial2/0

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

### WAN 5 NORWAY-> RUSSIA

Router#configure terminal

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

Router(config)#interface Serial2/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial3/0

Router(config-if)#ip address 172.16.16.113 255.255.255.252

Router(config-if)#ip address 172.16.16.113 255.255.255.252

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

Router#

#### **RUSSIA->NORWAY**

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface Serial2/0

Router(config-if)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

ip address 172.16.16.114 255.255.252.0

Router(config-if)#ip address 172.16.16.114 255.255.255.252

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

#### WAN 6 RUSSIA->LOTUS COMMITTEE

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface Serial3/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial3/0

Router(config-if)#ip address 172.16.16.117 255.255.255.252

Router(config-if)#ip address 172.16.16.117 255.255.255.252

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

### LOTUS COMITTE->RUSSIA

Router#configure terminal

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

Router(config)#interface Serial3/0

Router(config-if)#ip address 172.16.16.118 255.255.255.252

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial3/0

Router(config-if)#ip address 172.16.16.118 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface Serial3/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

Router(config-if)#exit

Router(config)#exit

#### Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

### WAN 7 LOTUS COMMITTEE->LOTUS

Router#configure terminal

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

Router(config)#interface Serial7/0

Router(config-if)#ip address 172.16.16.121 255.255.255.252

Router(config-if)#ip address 172.16.16.121 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG I: Configured from console by console

#### Router#wr

### LOTUS->LOTUS COMITTEE

Router#configure terminal

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

Router(config)#interface Serial2/0

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Router(config-if)#ip address 172.16.16.122 255.255.255.252

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG I: Configured from console by console

Router#wr

Building configuration...

[OK]

#### LOTUS COMITEE ROUTER IP ASSIGN

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface FastEthernet0/0

Router(config-if)#ip address 172.16.16.65 255.255.255.252

Router(config-if)#ip address 172.16.16.65 255.255.255.224

Router(config-if)#no shutdown

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

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

### Lotus ip

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface FastEthernet0/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface FastEthernet0/0

Router(config-if)#ip address 172.16.16.1 255.255.255.224

Router(config-if)#no shutdown

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

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG I: Configured from console by console

Router#wr

Building configuration...

[OK]

dynamic route from USA to china, brazil

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)#no auto-summary

Router(config-router)#network 172.16.16.0

Router(config-router)#network 172.16.0.0

Router(config-router)#passive-interface fa0/0

Router(config-router)#passive-interface se6/0

Router(config-router)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

Dynamic route from brazil to USA

Router>enable

Router#configure terminal

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

Router(config)#interface FastEthernet0/0

Router(config-if)#ip address 172.16.16.1 255.255.255.192

Router(config-if)#end

Router#

%SYS-5-CONFIG I: Configured from console by console

### 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)#no auto-summary

Router(config-router)#network 172.16.12.0

Router(config-router)#passive-interface fa0/0

Router(config-router)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

dynamic from china to usa

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)#no auto-summary

Router(config-router)#network 172.16.12.0

Router(config-router)#passive-interface fa0/0

Router(config-router)#end

Directly attatcted from usa to lotus comittee

Router>en

Router#conf t

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

Router(config)#ip route 172.16.16.64 255.255.255.224 se6/0

Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

Router#

Directly attatched from lotus comittee to usa

Router>en

Router#conf t

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

Router(config)#ip route 172.16.12.0 255.255.254.0 se2/0

Router(config)#end

Router#

%SYS-5-CONFIG I: Configured from console by console

Wľ

Building configuration...

[OK]

Recusrsive brazil to lotus comittee

en

Router#conf t

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

Router(config)#ip route 172.16.16.64 255.255.255.224 172.16.16.98

Router(config)#end

Router#

%SYS-5-CONFIG I: Configured from console by console

wr

Building configuration...

[OK]

#### Recursive Lotus to Brazil

en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ip route 172.16.16.0 255.255.255.192 172.16.16.105 Router(config)#end

Router#

%SYS-5-CONFIG I: Configured from console by console

WI

Building configuration...

[OK]

Router#

### Recursive from china to lotus

Router#en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#no ip route 172.16.16.64 255.255.255.224 se2/0 Router(config)#ip route 172.16.16.64 255.255.255.224 172.16.16.101 Router(config)#end

### Recursive lotus to china

Router#en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ip route 172.16.0.0 255.255.248.0 172.16.105 Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

# Directly attatched from Lotus comittee to lotus

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ip route 172.16.16.0 255.255.255.224 se7/0 Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

Directly attatched from Lotus to lotus comittee

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ip route 172.16.16.64 255.255.255.224 se2/0 Router(config)#end

Router#

%SYS-5-CONFIG I: Configured from console by console

wr

Building configuration...

[OK]

Router#

directly attatched from norway to lotus comitte

Router>en

Router#conf t

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

Router(config)#ip route 172.16.16.64 255.255.255.224 se2/0

Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

directly attatched FROM lotus comittee to norway

Router>en

Router#conf t

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

Router(config)#ip route 172.16.16.64 255.255.255.224 se2/0

Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

directly attatched lotus comitte to russia

Router#en

Router#conf t

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

Router(config)#ip route 172.16.8.0 255.255.252.0 se3/0

Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

Router#

directly attatched russia to lotus comiittee

en

Router#conf t

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

Router(config)#ip route 172.16.16.64 255.255.255.224 se3/0

Router(config)#end

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

Router#

## Recursive from norway to lotus

Router>en

Router#conf t

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

Router(config)#ip route 172.16.16.0 255.255.255.224 172.16.16.109

Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

### Recursive from lotus to norway

Router#conf t

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

Router(config)#ip route 172.16.14.0 255.255.254.0 172.16.16.121

Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

### Recursive Russia to Lotus

Router>en

Router#conf t

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

Router(config)#ip route 172.16.16.0 255.255.255.224 172.16.16.118

Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

Router#

### Recursive lotus to russia

en

conf t

Router(config)#ip route 172.16.8.0 255.255.252.0 172.16.16.121

Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

Router#

### Recursive usa to norway

Router>

Router>en

Router#conf t

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

Router(config)#ip route 172.16.14.0 255.255.54.0 172.16.16.106

%Inconsistent address and mask

Router(config)#ip route 172.16.14.0 255.255.254.0 172.16.16.106

Router(config)#end

Router#

%SYS-5-CONFIG I: Configured from console by console

wr

Building configuration...

[OK]

### Recursive norway to usa

en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ip route 172.16.12.0 255.255.254.0 172.16.16.109

Router(config)#end

Router#

%SYS-5-CONFIG I: Configured from console by console

wr

Building configuration...

[OK]

Router#

# Recursive china to norway

en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ip route 172.16.14.0 255.255.254.0 172.16.16.101 Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

Router#

### Recursive norway to china

Router#

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ip route 172.16.0.0 255.255.248.0 172.16.16.109 Router(config)#end

Router#

 $\ensuremath{\mbox{\sc MSYS-5-CONFIG\_I}}\xspace$  : Configured from console by console

wr

Building configuration...

[OK]

Router#

#### Recursive Russia to USA

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ip route 172.16.12.0 255.255.254.0 172.16.16.118 Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

Router#

### Recursive USA to Russia

en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ip route 172.16.8.0 255.255.252.0 172.16.16.106 Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

#### Recursive china to Russia

Router#en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ip route 172.16.8.0 255.255.252.0 172.16.16.101 Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...
[OK]

Router#

### Recursive Russia to china

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ip route 172.16.0.0 255.255.248.0 172.16.118

Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

Router#

# Recursive Brazil to norway

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ip route 172.16.14.0 255.255.254.0 172.16.16.98 Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

Router#

# Recursive norway to brazil

Router>en

Router#conf t

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

Router(config)#ip route 172.16.16.0 255.255.255.192 172.16.16.109
Router(config)#end
Router#
%SYS-5-CONFIG\_I: Configured from console by console
wr
Building configuration...
[OK]
Router#

direct betwnn norway and russia

Router>en
norway
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.16.8.0 255.255.252.0 se3/0
Router(config)#end
Router#

wr

Building configuration...

[OK]

Router#

russia

Router(config)#ip route 172.16.14.0 255.255.254.0 se2/0 Router(config)#end

%SYS-5-CONFIG I: Configured from console by console

float between rusia and lotus through norway recursively

lotus

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ip route 172.16.8.0 255.255.252.0 172.16.16.121 25 Router(config)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

wr

Building configuration...

[OK]

Router#

russia

#ip route 172.16.24.0 255.255.248.0 172.16.16.113 25