

必做：

子网划分

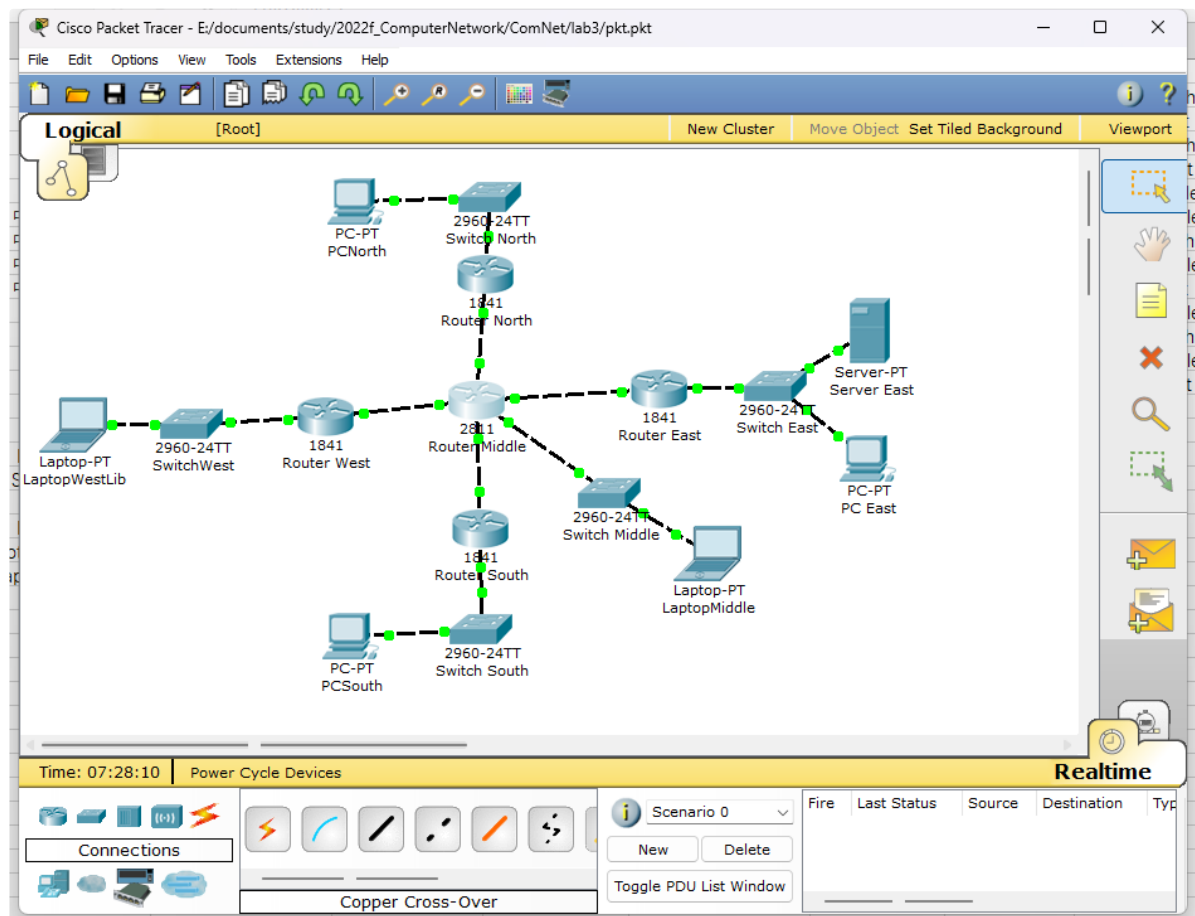
校区	子网
南区	110.7.0.0/24
东区	110.7.1.0/24
北区	110.7.2.0/24
西区	110.7.3.0/24
中区	110.7.8.0/24
中区-南区	110.7.4.0/24
中区-东区	110.7.5.0/24
中区-北区	110.7.6.0/24
中区-西区	110.7.7.0/24

接口Ip划分：

Device	Interface	IP Address	Mask	To Device	To Interface
Router Middle	FastEthernet0/0	110.7.4.1	255.255.255.0	Router South	FastEthernet0/0
	FastEthernet0/1	110.7.5.1	255.255.255.0	Router East	FastEthernet0/0
	FastEthernet1/0	110.7.6.1	255.255.255.0	Router North	FastEthernet0/0
	FastEthernet1/1	110.7.7.1	255.255.255.0	Router West	FastEthernet0/0
	Ethernet1/0/0	110.7.8.1	255.255.255.0	Switch Middle	
Router South	FastEthernet0/0	110.7.4.2	255.255.255.0	Router Middle	FastEthernet0/0
	FastEthernet0/1	110.7.0.1	255.255.255.0	Switch South	
Router East	FastEthernet0/0	110.7.5.2	255.255.255.0	Router Middle	FastEthernet0/1
	FastEthernet0/1	110.7.1.1	255.255.255.0	Switch East	
Router North	FastEthernet0/0	110.7.6.2	255.255.255.0	Router Middle	FastEthernet1/0
	FastEthernet0/1	110.7.2.1	255.255.255.0	Switch North	
Router West	FastEthernet0/0	110.7.7.2	255.255.255.0	Router Middle	FastEthernet1/1
	FastEthernet0/1	110.7.3.1	255.255.255.0	Switch West	

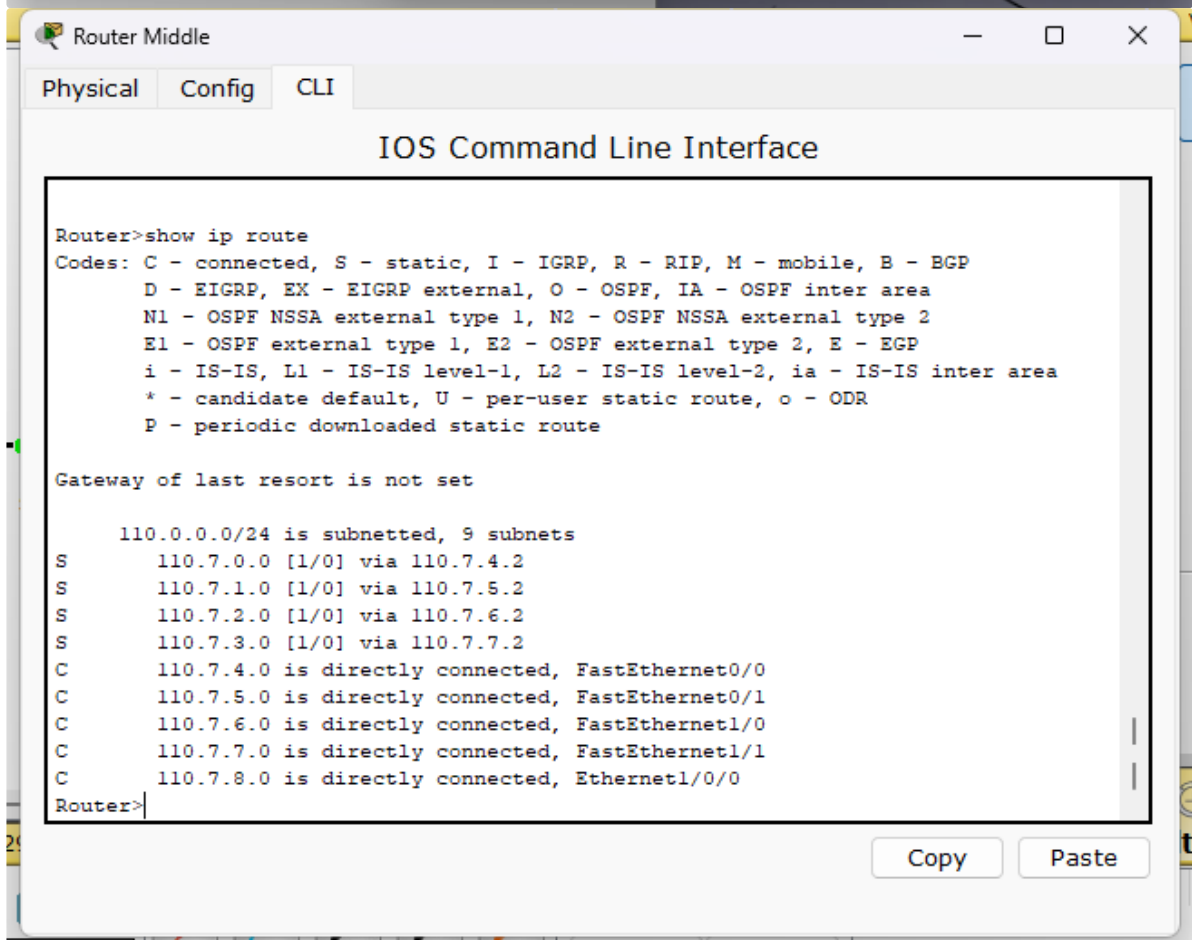
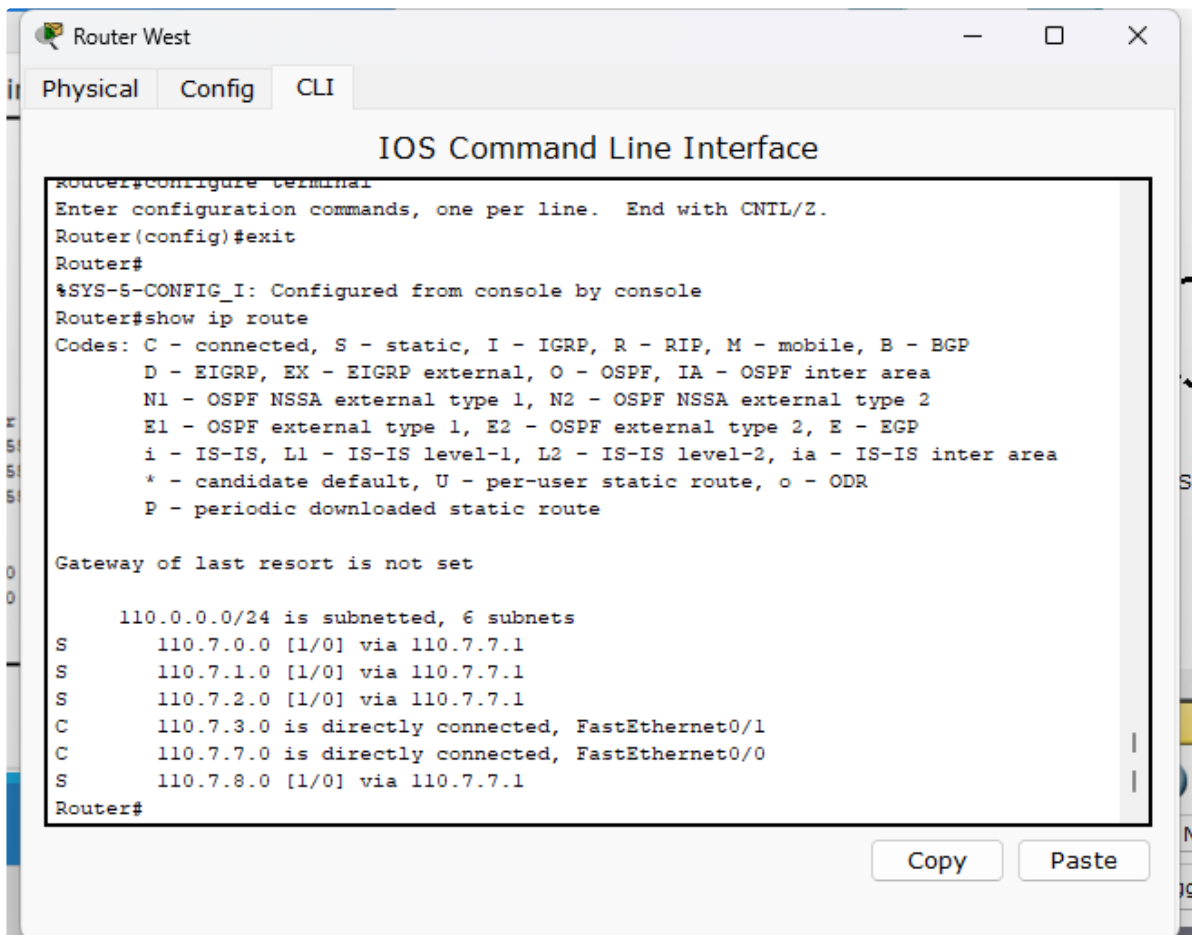
Device	IP Address	Mask	Gateway
PC South	110.7.0.2	255.255.255.0	110.7.0.1
Sever East	110.7.1.2	255.255.255.0	110.7.1.1
PC East	110.7.1.3	255.255.255.0	110.7.1.1
PC North	110.7.2.2	255.255.255.0	110.7.2.1
Laptop West Lib	110.7.3.2	255.255.255.0	110.7.3.1
Laptop Middle	110.7.8.2	255.255.255.0	110.7.8.1

搭建结果：



静态路由：

仅使用指令展示其中两个路由器的结果，其他结果整合在excel表格中



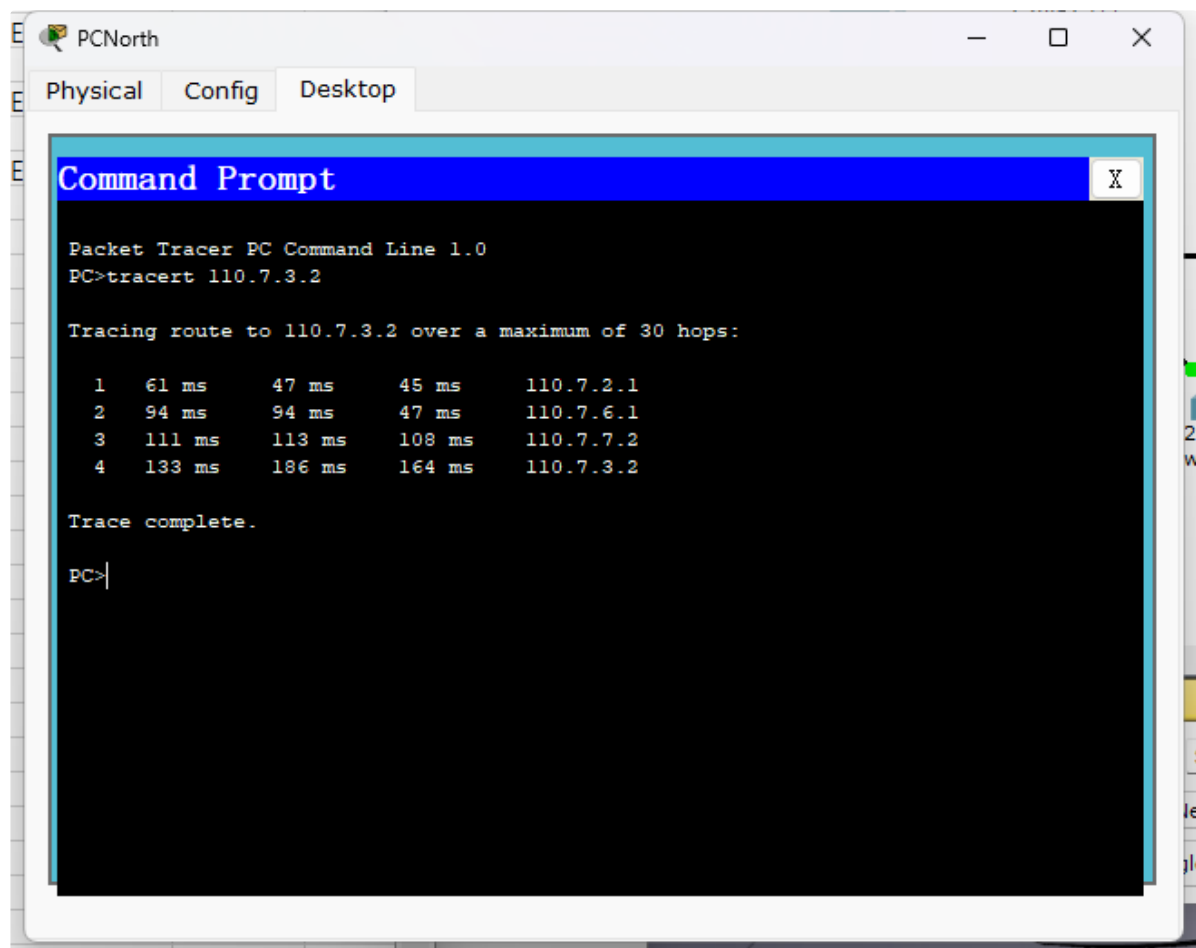
其他结果：

Router	Network	Mask	Next Hop
Router Middle	110.7.0.0	255.255.255.0	110.7.4.2
	110.7.1.0	255.255.255.0	110.7.5.2
	110.7.2.0	255.255.255.0	110.7.6.2
	110.7.3.0	255.255.255.0	110.7.7.2
	110.7.8.0	255.255.255.0	110.7.8.2
Router South	110.7.1.0	255.255.255.0	110.7.4.1
	110.7.2.0	255.255.255.0	110.7.4.1
	110.7.3.0	255.255.255.0	110.7.4.1
	110.7.8.0	255.255.255.0	110.7.4.1
Router East	110.7.0.0	255.255.255.0	110.7.5.1
	110.7.2.0	255.255.255.0	110.7.5.1
	110.7.3.0	255.255.255.0	110.7.5.1
	110.7.8.0	255.255.255.0	110.7.5.1
Router North	110.7.0.0	255.255.255.0	110.7.6.1
	110.7.1.0	255.255.255.0	110.7.6.1
	110.7.3.0	255.255.255.0	110.7.6.1
	110.7.8.0	255.255.255.0	110.7.6.1
Router West	110.7.0.0	255.255.255.0	110.7.7.1
	110.7.1.0	255.255.255.0	110.7.7.1
	110.7.2.0	255.255.255.0	110.7.7.1
	110.7.8.0	255.255.255.0	110.7.7.1

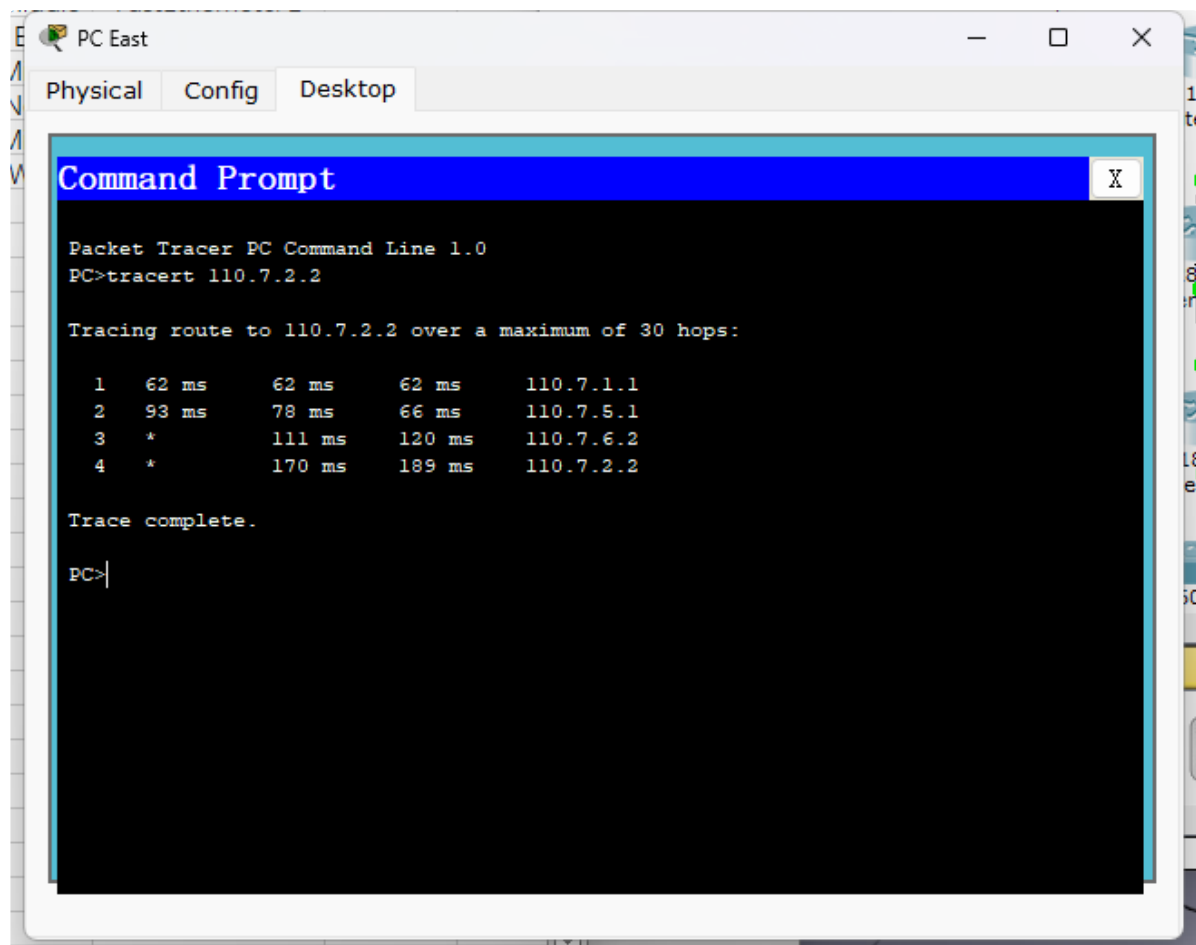
静态路由下连通性测试：

采用环路测试，每个终端ping逆时针顺序的下一个终端（东区有两台设备，任选其一）

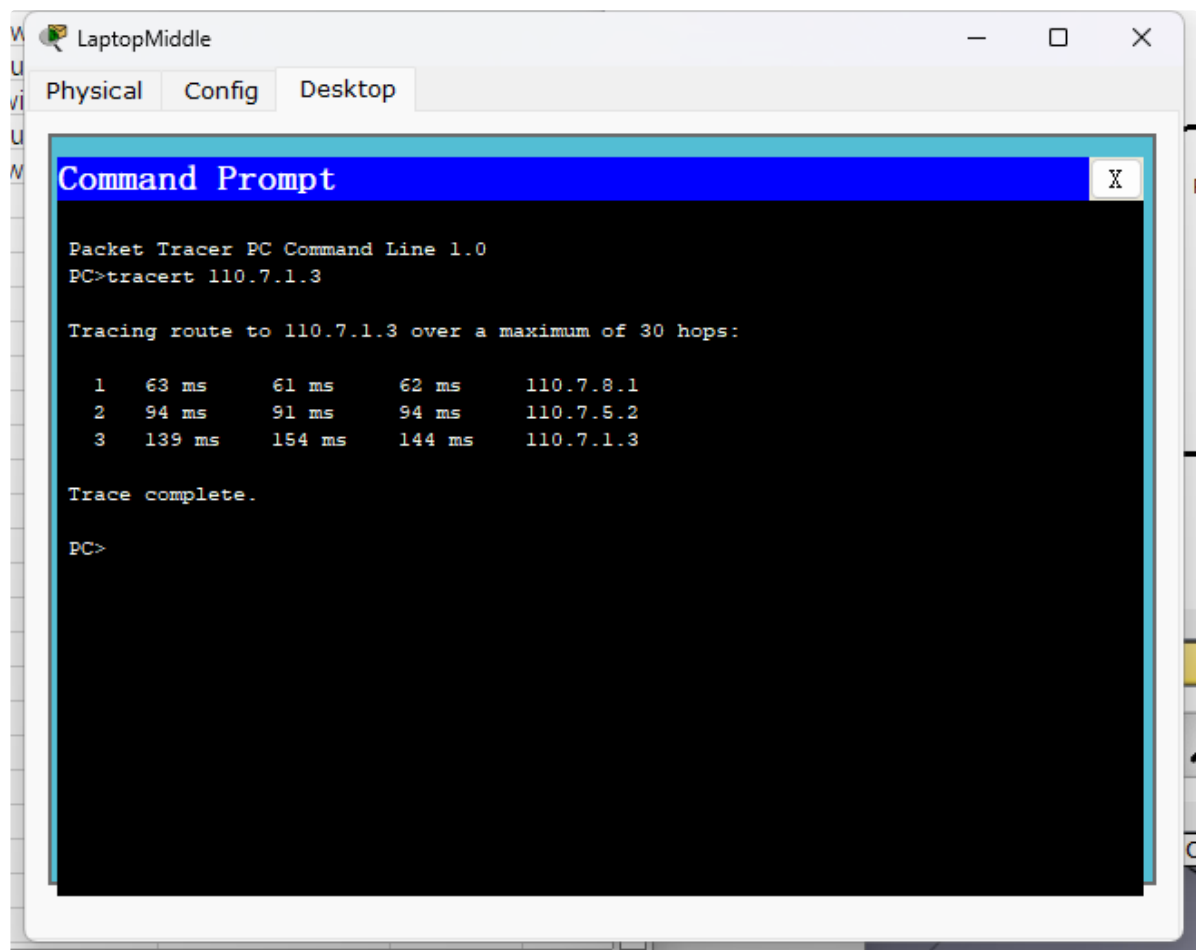
1. 北到西



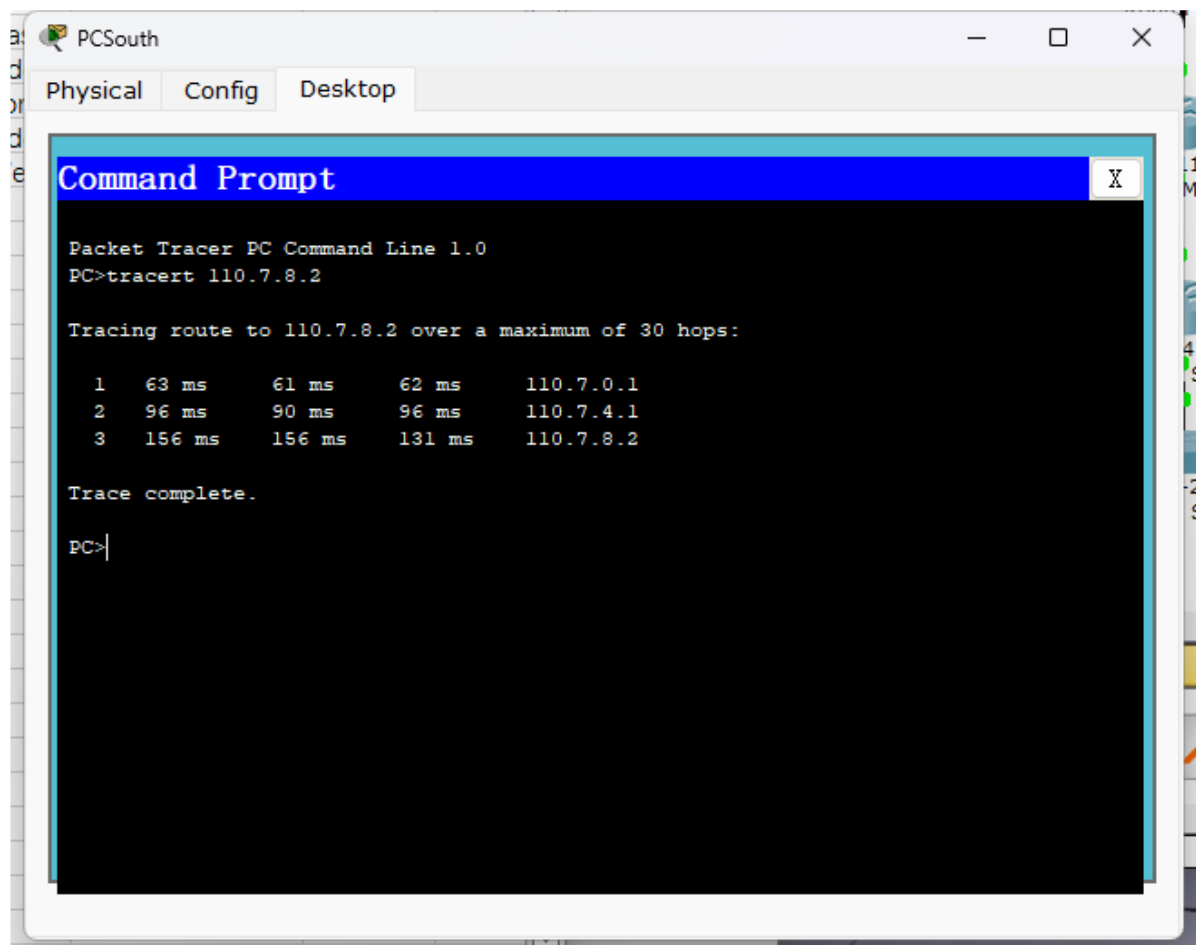
2. 东到北



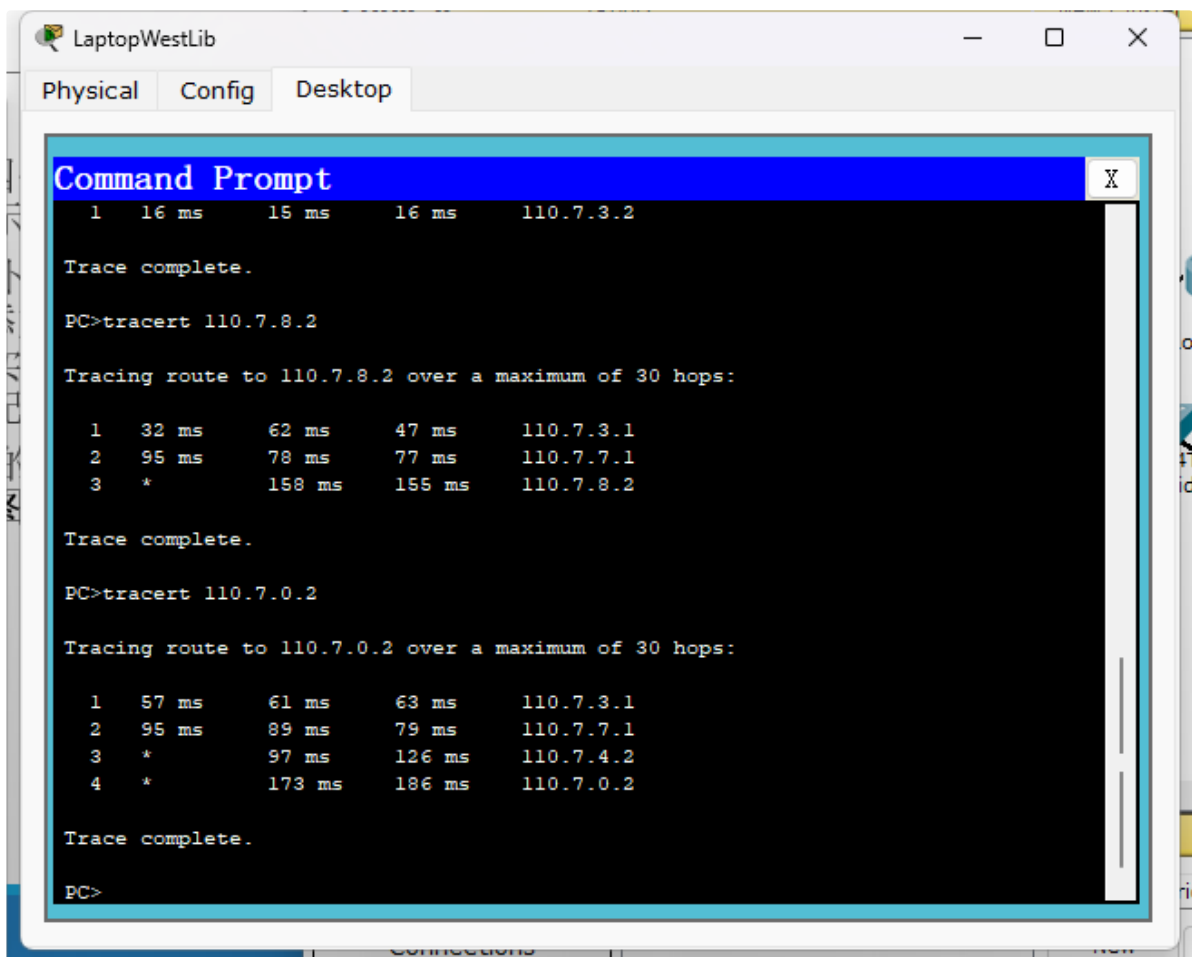
3. 中到东



4. 南到中



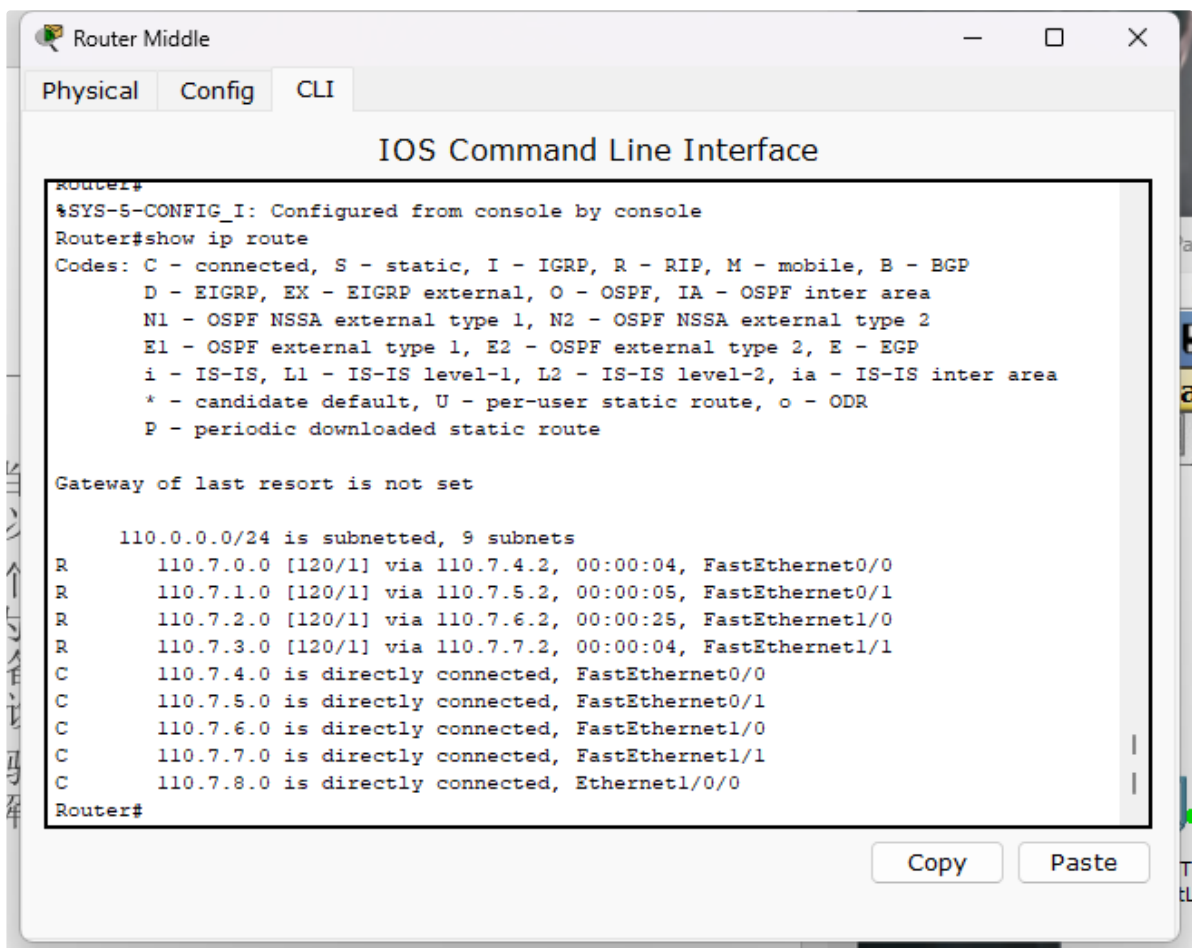
5. 西到南



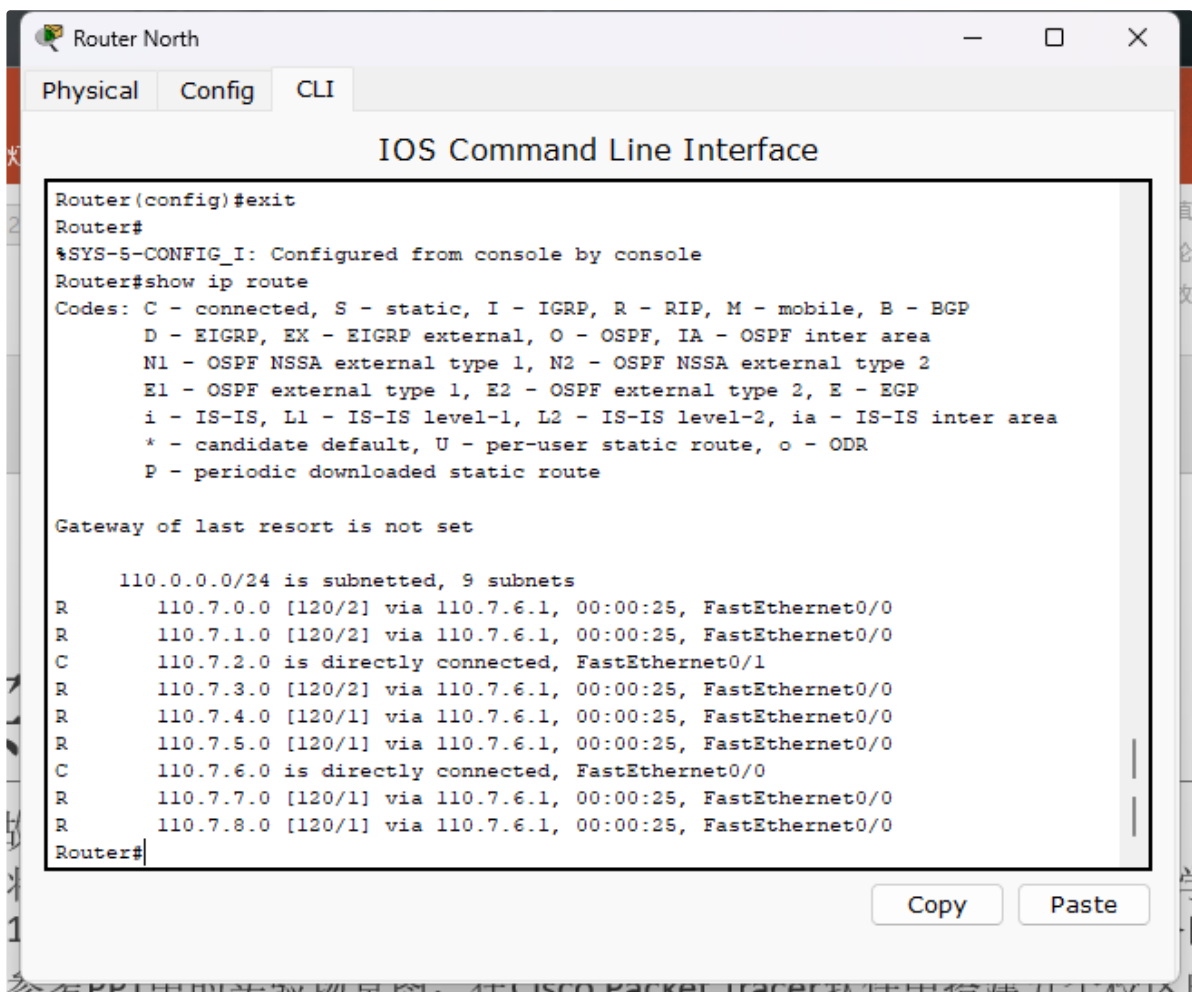
RIP:

路由转发表信息:

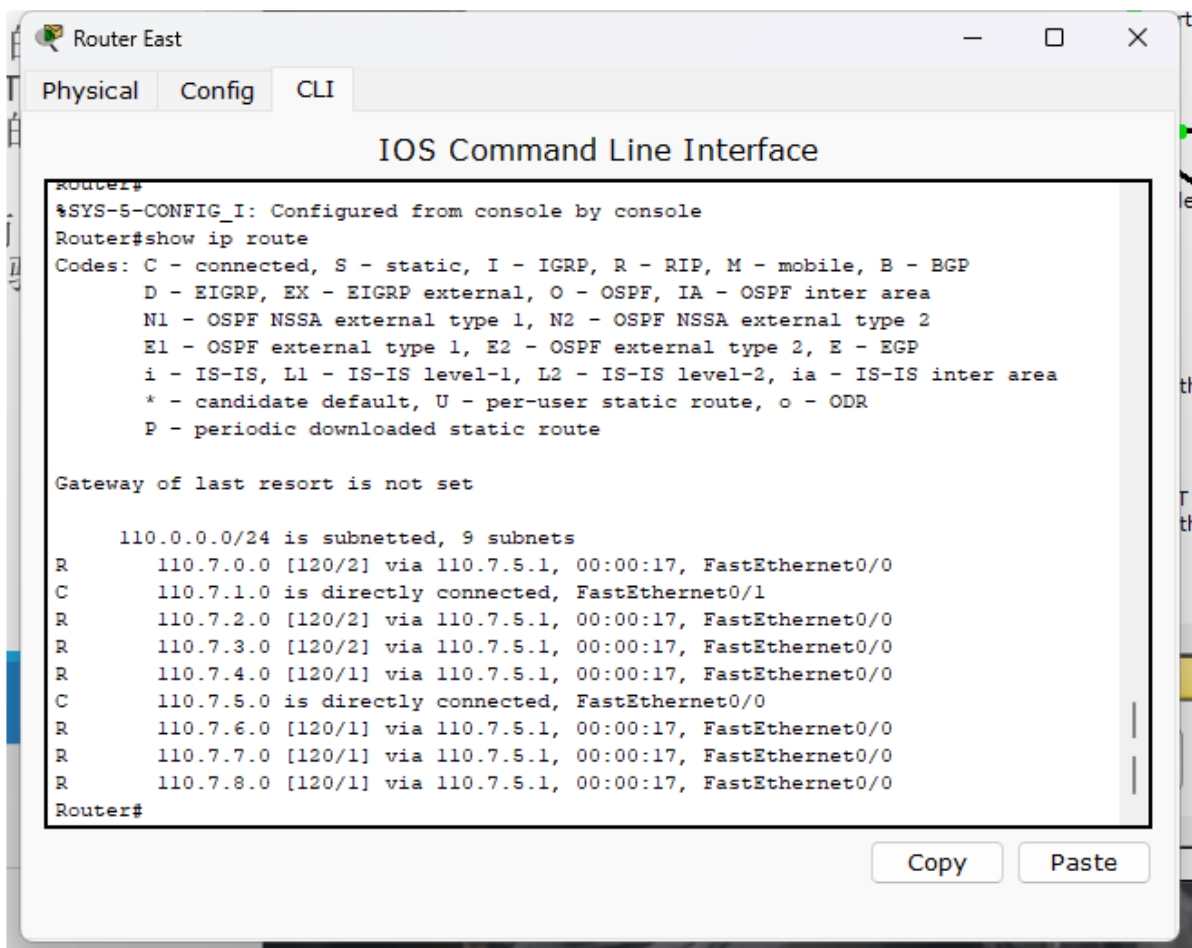
1. 中



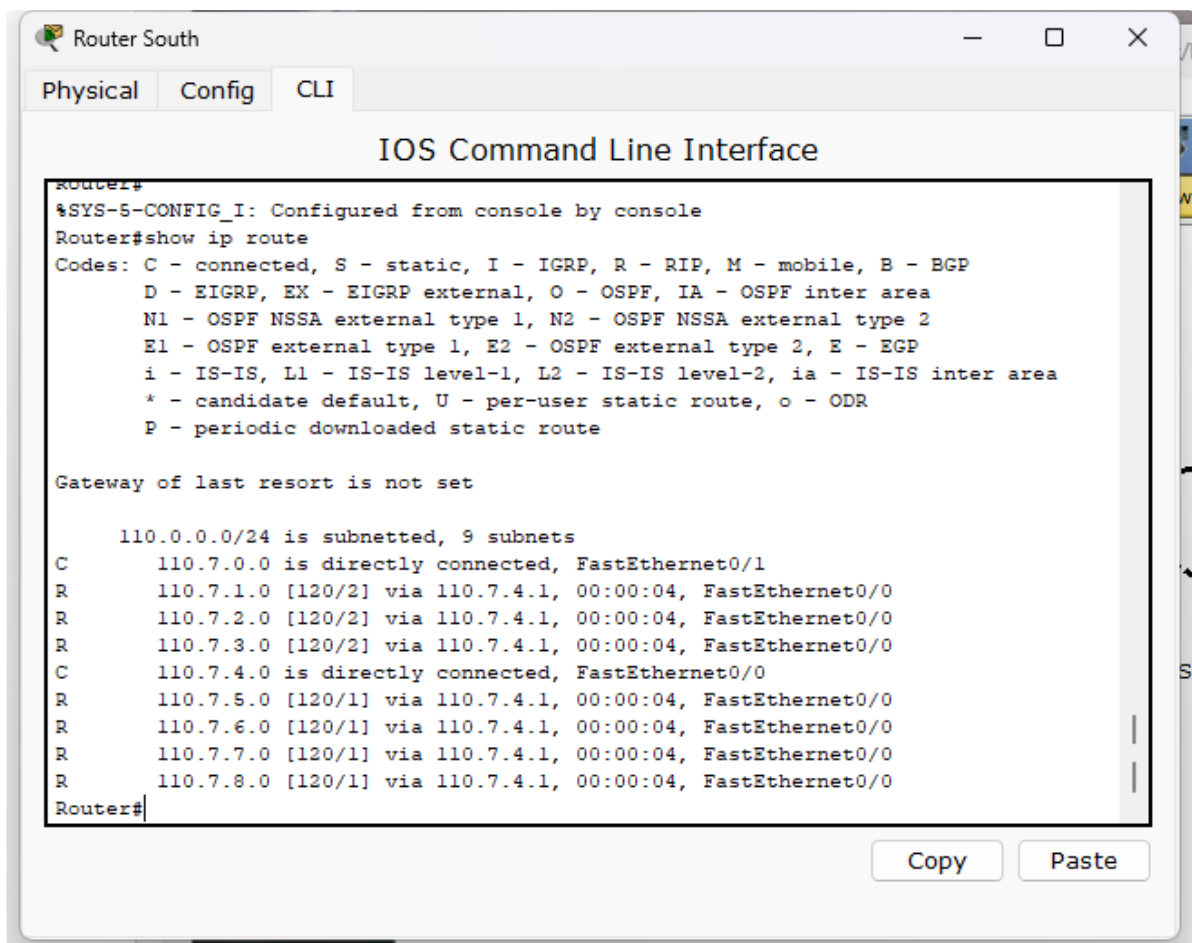
2. 北



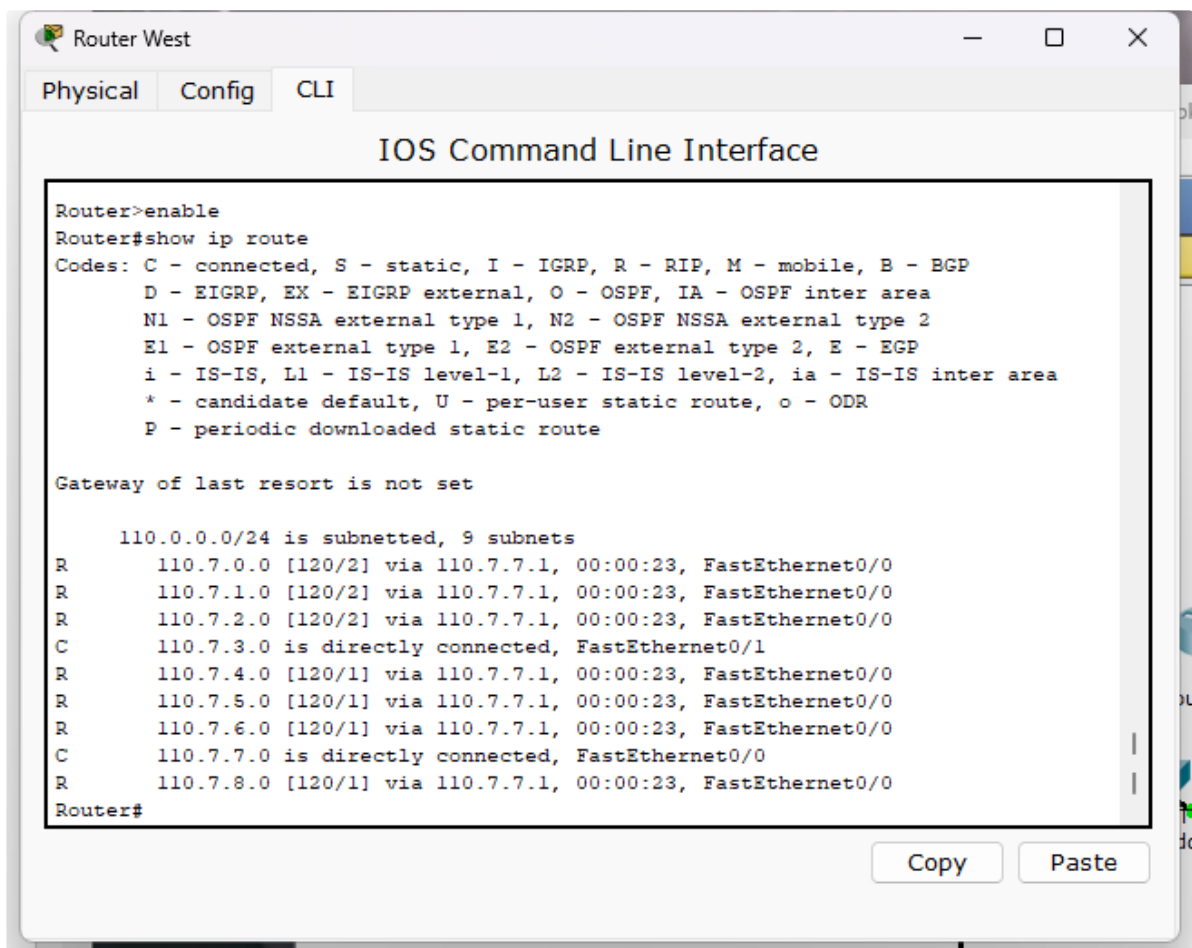
3. 东



4. 南

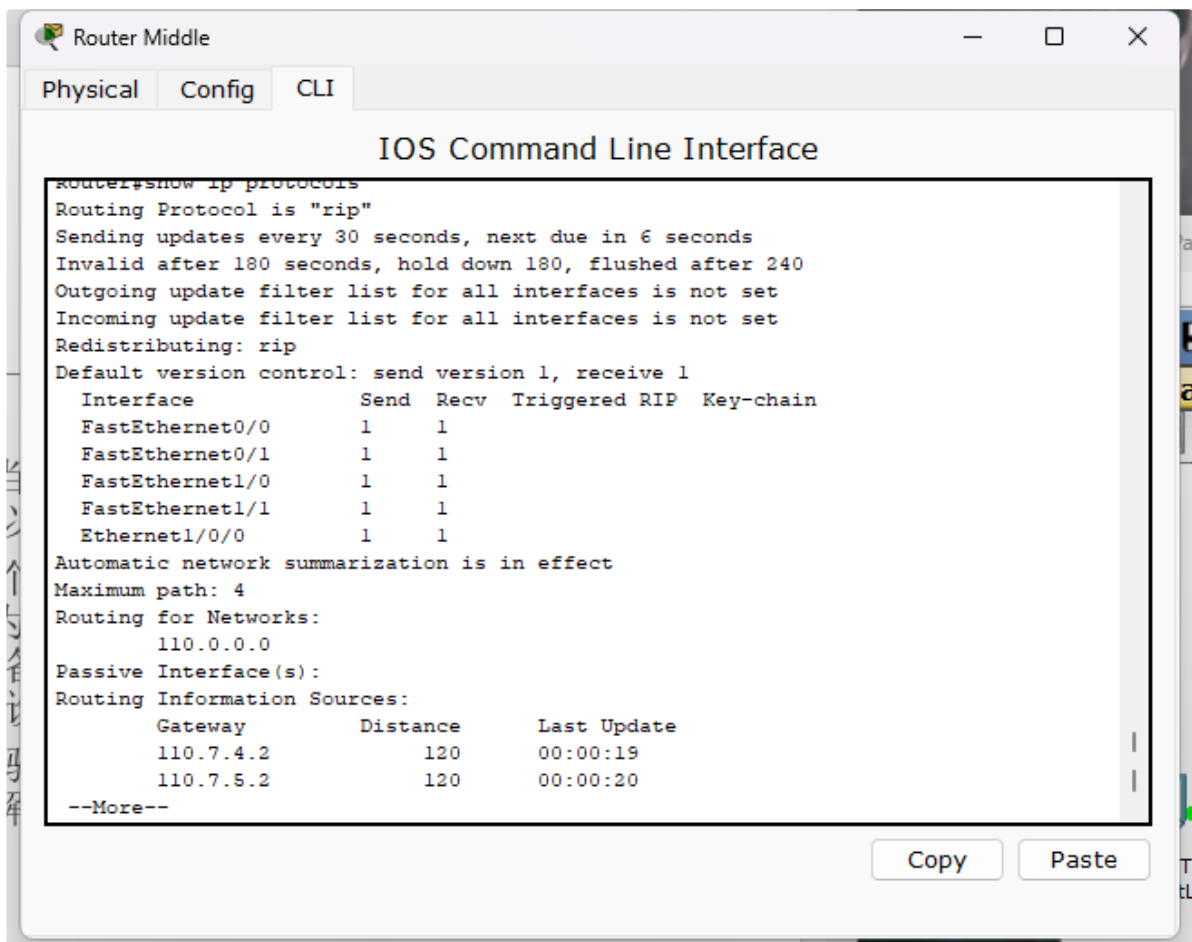


5. 西

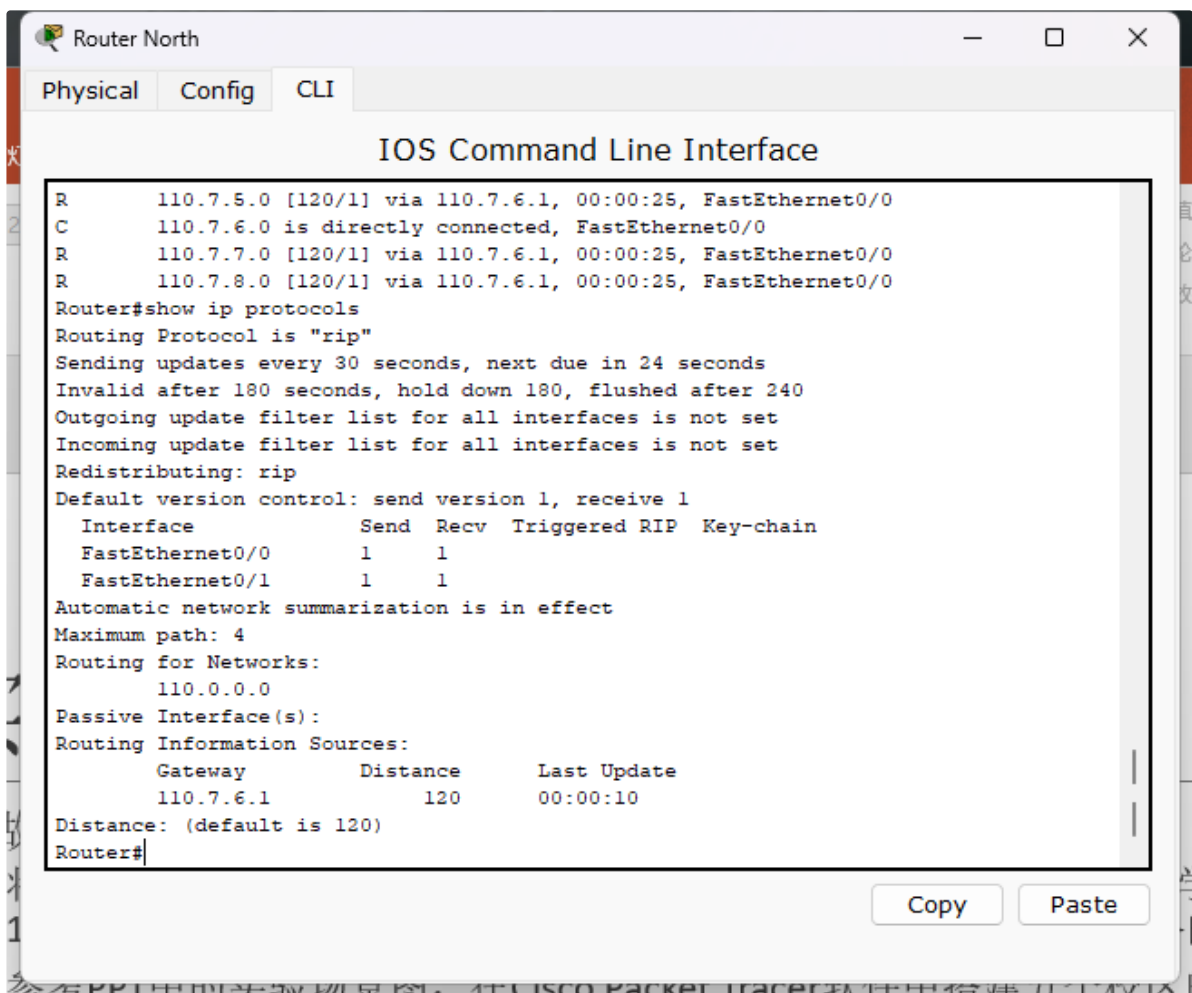


路由protocol信息:

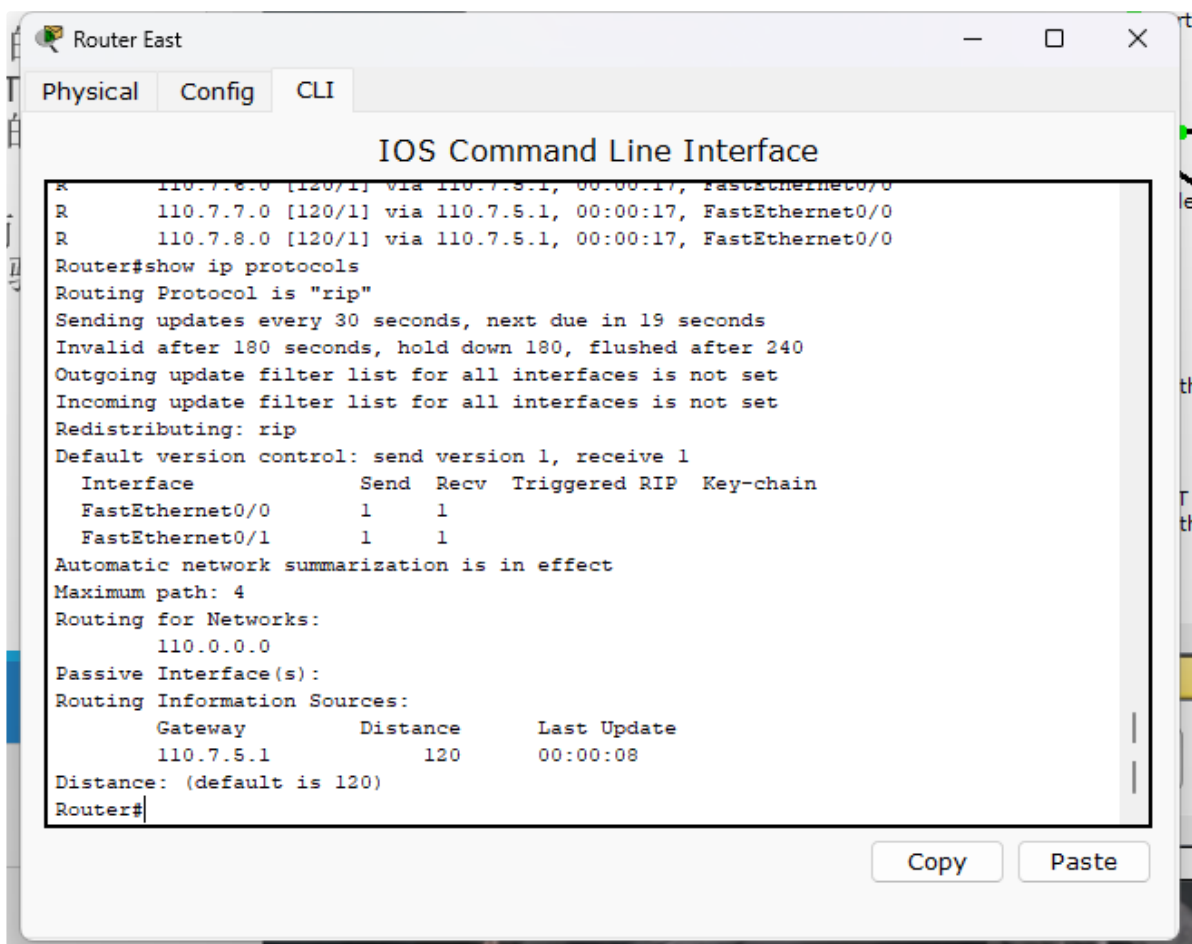
1. 中



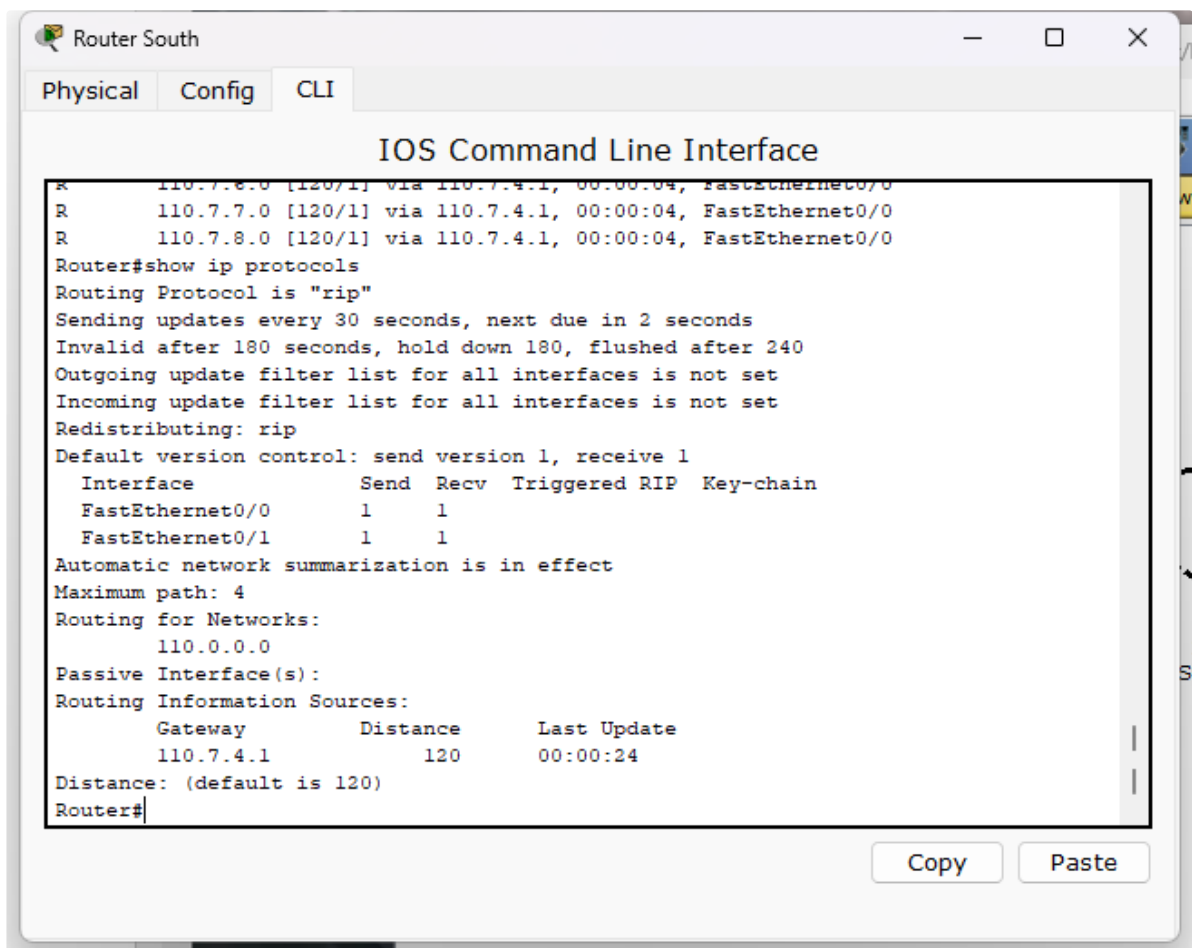
2. 北



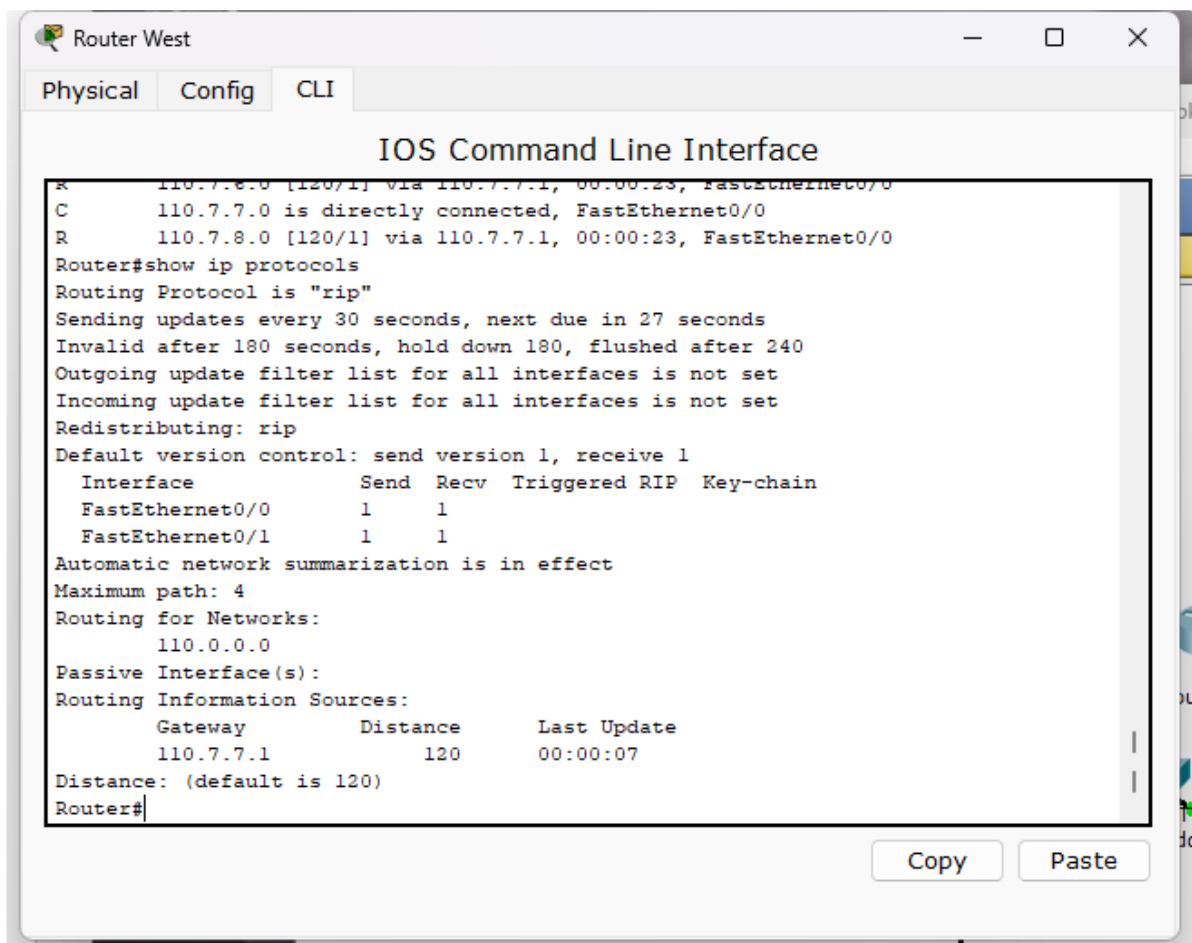
3. 东



4. 南

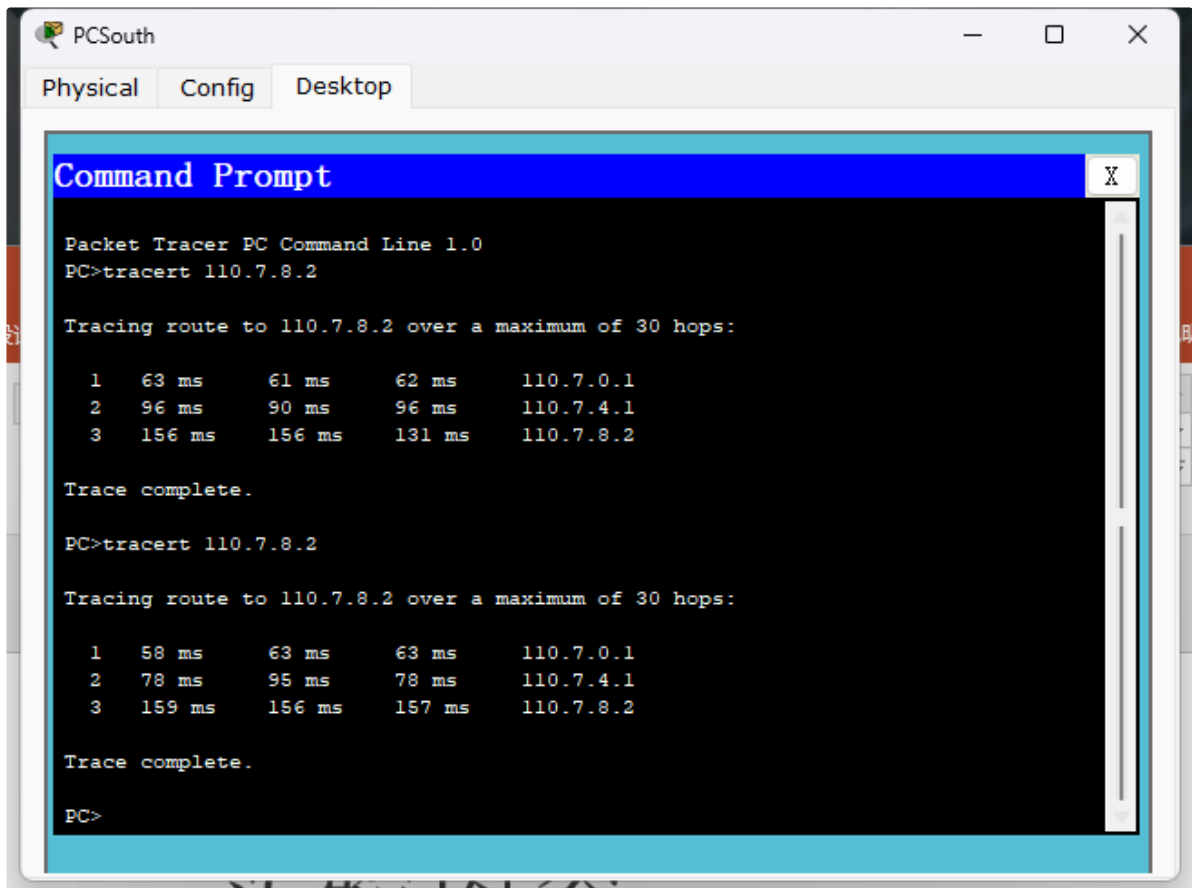


5. 西

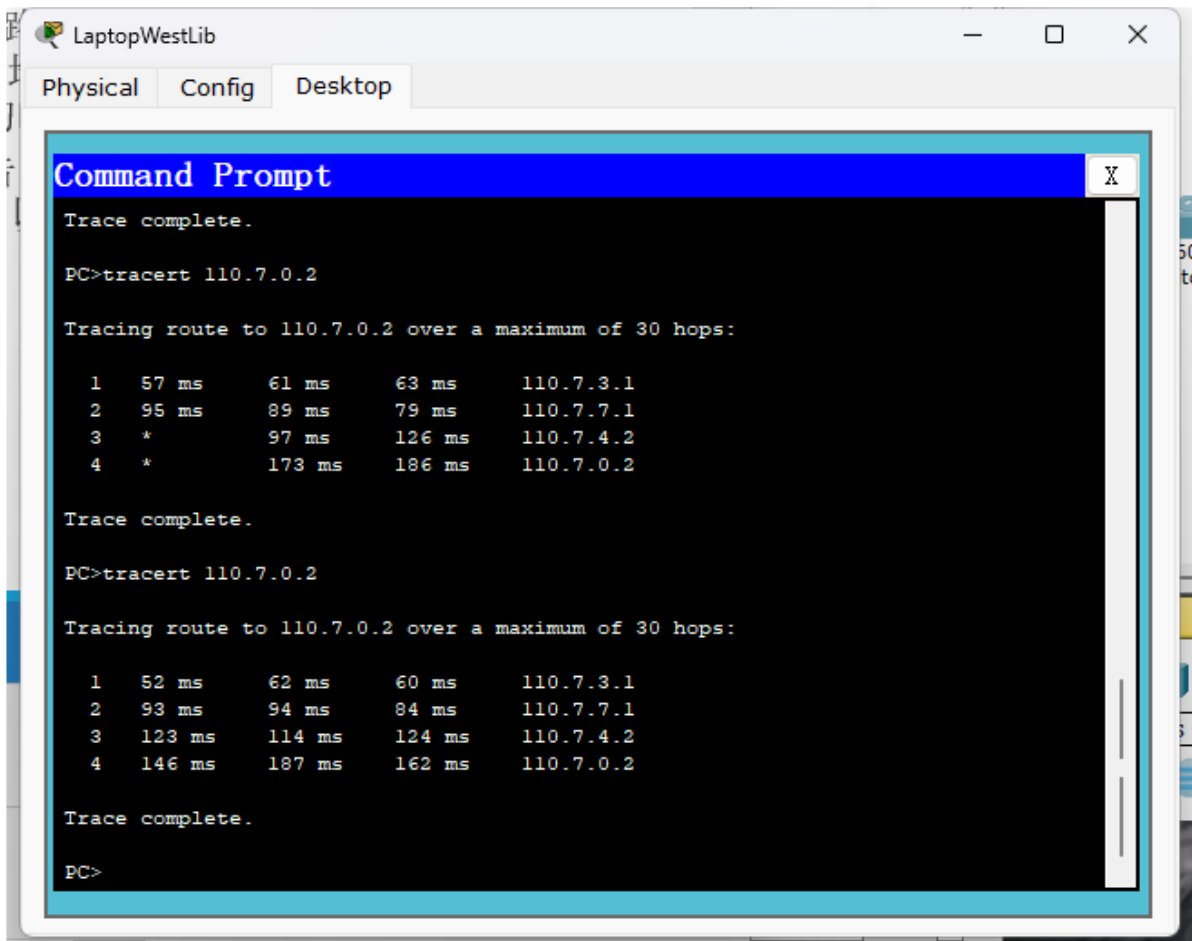


连通性测试:

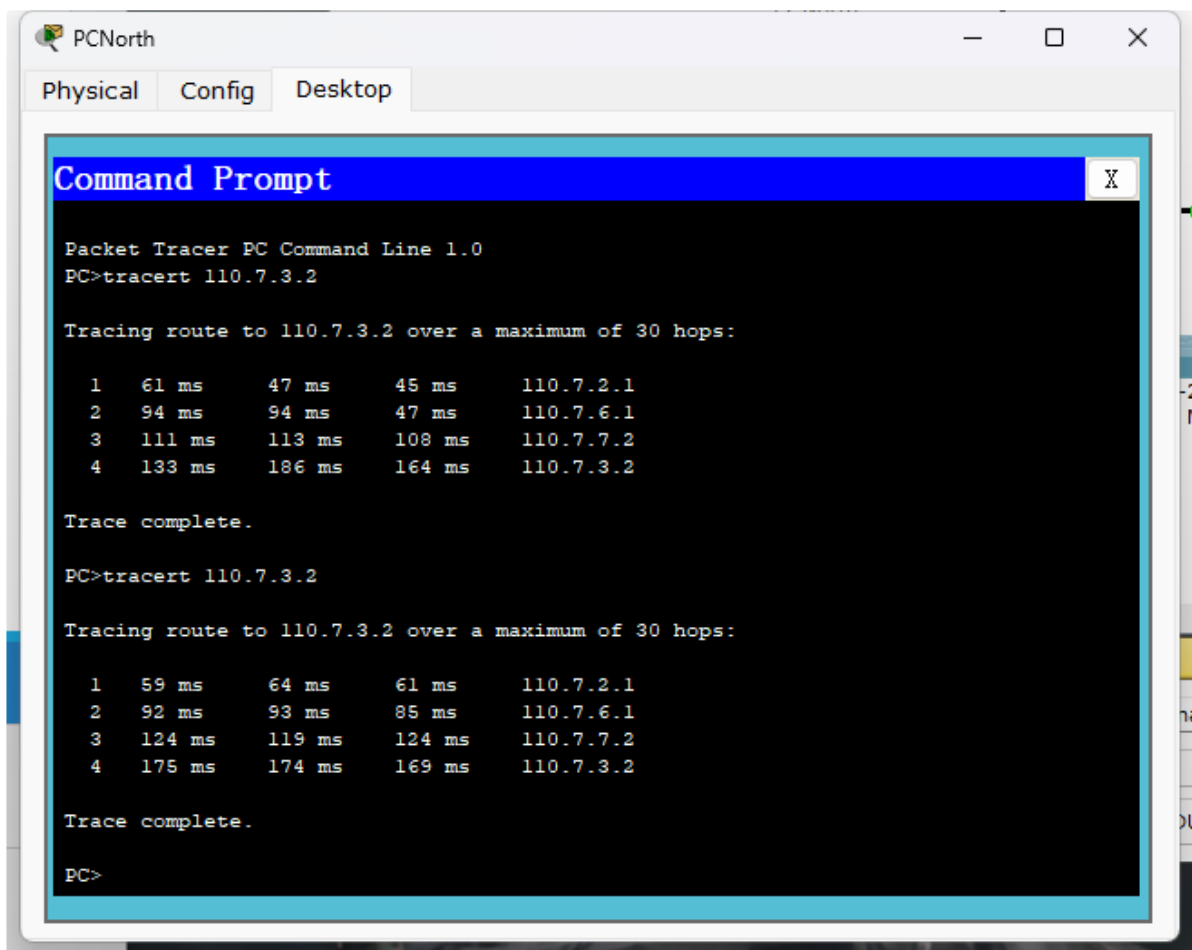
1. 南到中



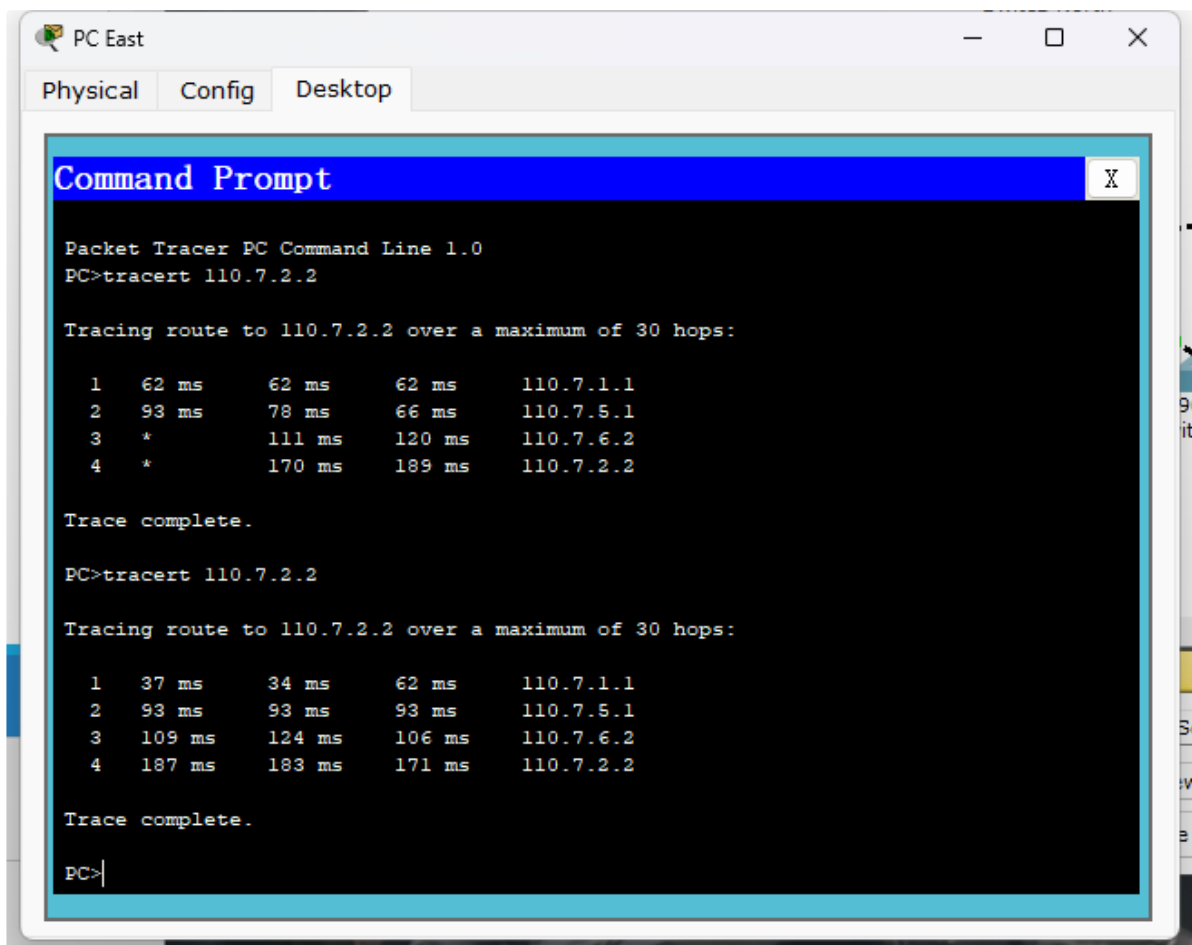
2. 西到南



3. 北到西



4. 东到北



5. 中到东

