

**МИНОБРАЗОВАНИЯ РОССИИ**  
**САНКТ-ПЕТЕРБУРГСКИЙ ГОСУДАРСТВЕННЫЙ**  
**ЭЛЕКТРОТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ**  
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**ОТЧЕТ**  
**по лабораторной работе №2**  
**по дисциплине «Сети и телекоммуникации»**  
**Тема: Настройка таблиц маршрутизации**

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### **Цель работы.**

Изучение методов статической маршрутизации в IP-сетях; овладение управлением таблицами маршрутизации на узлах сетевого уровня

### **Порядок выполнения работы.**

1. Для всех узлов сети установить IP-адреса, маски подсетей и шлюзы по умолчанию, чтобы добиться успешного выполнения Echo-запроса ближайших соседей (находящихся в одной подсети).

2. Настроить таблицы маршрутизации на маршрутизаторах, чтобы добиться доставки пакетов от узла K1 к узлу K2 и обратно, от узла K2 к K3 и обратно, от узла K3 к K1 и обратно. Пакеты должны доходить до узлов кратчайшим путем.

3. Настроить таблицы маршрутизации на узлах K1, K2 и K3, чтобы обеспечить кратчайшую доставку пакетов между этими узлами, если это невозможно было обеспечить в п. 2.

В отчете привести конфигурацию TCP/IP для каждого из узлов, таблицы маршрутизации, результаты Echo-запросов между узлами K1, K2 и K3, а также обоснование правильности и оптимальности выбранных маршрутов.

Вариант 12. Файл со схемой сети: lab2\_var12.jfst. Все маршрутизаторы и компьютеры имеют адреса из диапазона 200.0.1.1 – 200.0.254.254. Обозначения в задании: K1 – PC1, K2 – PC2, K3 – PC3.

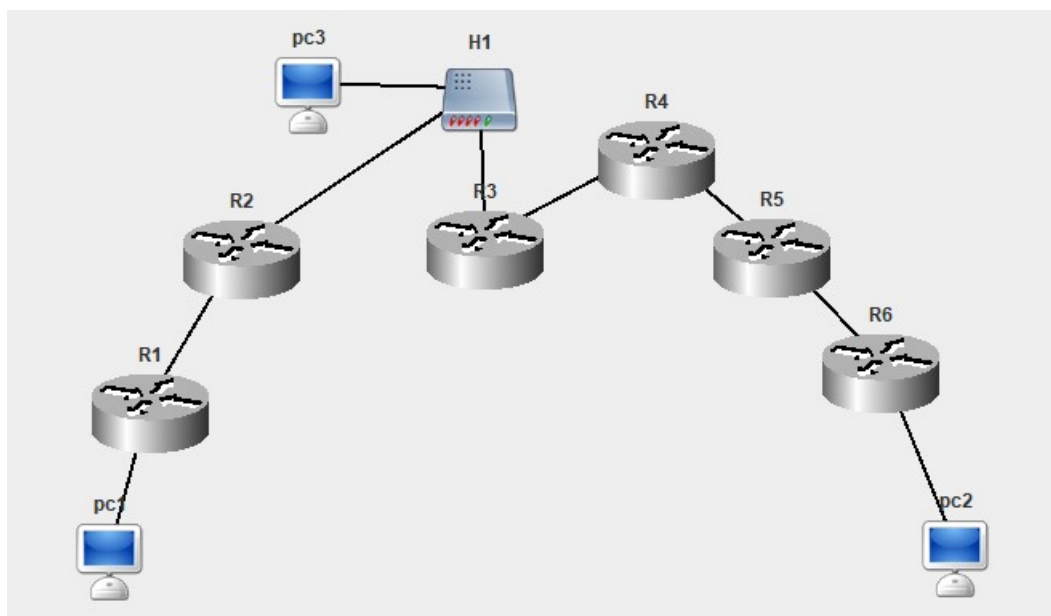


Рисунок 1. Схема представленной сети

### Выполнение работы.

1.

Устройство	Шлюз по умолчанию	Сетевой интерфейс	IP-адрес	Маска подсети
pc1	200.0.1.2	eth0	200.0.1.1	255.255.255.0
pc2	200.0.7.1	eth0	200.0.7.2	255.255.255.0
pc3	200.0.3.3	eth0	200.0.3.2	255.255.255.0
R1	200.0.2.2	eth0	200.0.1.2	255.255.255.0
		eth1	200.0.2.1	
R2	200.0.3.3	eth0	200.0.2.2	255.255.255.0
		eth1	200.0.3.1	
R3	200.0.4.2	eth0	200.0.3.3	255.255.255.0
		eth1	200.0.4.1	
R4	200.0.5.2	eth0	200.0.4.2	255.255.255.0
		eth1	200.0.5.1	
R5	200.0.6.2	eth0	200.0.5.2	255.255.255.0

		eth1	200.0.6.1	
R6	200.0.6.1	eth0	200.0.6.2	255.255.255.0
		eth1	200.0.7.1	

\*IP-адреса были выбраны из диапазона 200.0.1.1 — 200.0.254.254

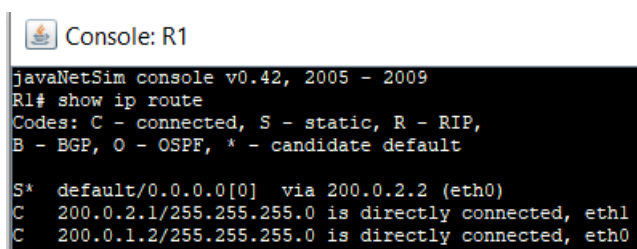
\*Маски подсетей были выбраны — 255.255.255.0 для всех, соответственно, IP-адреса подсетей: с 200.0.1.0 до 200.0.7.0 (меняется только третий октет - всего 7 подсетей)

\*Гетвеи были настроены так: у pc1 шлюз выходит на R1, у R1 на R2, у R2 на R3, у R3 на R4, у R4 на R5, у R5 на R6, у R6 на R5, у pc3 на R3, у pc2 на R6.

\*В результате текущего этапа Echo-запросы успешно производятся только в пределах одной подсети, Echo-запросы в разные подсети не доходят — они теряются, потому что Gateway позволяет идти пакету только в одну сторону, оттого все пакеты из разных подсетей будут «умирать» в пределах R5-R6.

2. Таблицы маршрутизации для всех представленных в лабораторной работе маршрутизаторов:

R1:



```

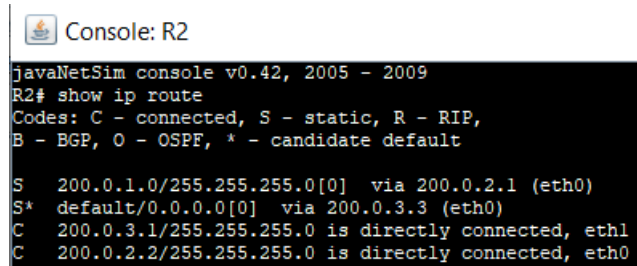
Console: R1
javaNetSim console v0.42, 2005 - 2009
R1# show ip route
Codes: C - connected, S - static, R - RIP,
B - BGP, O - OSPF, * - candidate default

S* default/0.0.0.0[0] via 200.0.2.2 (eth0)
C 200.0.2.1/255.255.255.0 is directly connected, eth1
C 200.0.1.2/255.255.255.0 is directly connected, eth0

```

Рисунок 2. ТМ для R1

R2:



```

Console: R2
javaNetSim console v0.42, 2005 - 2009
R2# show ip route
Codes: C - connected, S - static, R - RIP,
B - BGP, O - OSPF, * - candidate default

S 200.0.1.0/255.255.255.0[0] via 200.0.2.1 (eth0)
S* default/0.0.0.0[0] via 200.0.3.3 (eth0)
C 200.0.3.1/255.255.255.0 is directly connected, eth1
C 200.0.2.2/255.255.255.0 is directly connected, eth0

```

Рисунок 3. ТМ для R2

R3:

```
Console: R3
javaNetSim console v0.42, 2005 - 2009
R3# show ip route
Codes: C - connected, S - static, R - RIP,
B - BGP, O - OSPF, * - candidate default

S    200.0.1.0/255.255.255.0[0] via 200.0.3.1 (eth0)
S*   default/0.0.0.0[0] via 200.0.4.2 (eth0)
C    200.0.4.1/255.255.255.0 is directly connected, eth1
C    200.0.3.3/255.255.255.0 is directly connected, eth0
```

Рисунок 4. ТМ для R3

R4:

```
Console: R4
javaNetSim console v0.42, 2005 - 2009
R4# show ip route
Codes: C - connected, S - static, R - RIP,
B - BGP, O - OSPF, * - candidate default

S    200.0.1.0/255.255.255.0[0] via 200.0.4.1 (eth0)
S*   default/0.0.0.0[0] via 200.0.5.2 (eth0)
S    200.0.3.0/255.255.255.0[0] via 200.0.4.1 (eth0)
C    200.0.5.1/255.255.255.0 is directly connected, eth1
C    200.0.4.2/255.255.255.0 is directly connected, eth0
```

Рисунок 5. ТМ для R4

R5:

```
Console: R5
javaNetSim console v0.42, 2005 - 2009
R5# show ip route
Codes: C - connected, S - static, R - RIP,
B - BGP, O - OSPF, * - candidate default

S    200.0.1.0/255.255.255.0[0] via 200.0.5.1 (eth0)
S*   default/0.0.0.0[0] via 200.0.6.2 (eth0)
S    200.0.3.0/255.255.255.0[0] via 200.0.5.1 (eth0)
C    200.0.6.1/255.255.255.0 is directly connected, eth1
C    200.0.5.2/255.255.255.0 is directly connected, eth0
```

Рисунок 6. ТМ для R5

R6:

```
Console: R6
javaNetSim console v0.42, 2005 - 2009
R6# show ip route
Codes: C - connected, S - static, R - RIP,
B - BGP, O - OSPF, * - candidate default

S*   default/0.0.0.0[0] via 200.0.6.1 (eth0)
C    200.0.7.1/255.255.255.0 is directly connected, eth1
C    200.0.6.2/255.255.255.0 is directly connected, eth0
```

Рисунок 7. ТМ для R6

\*В ТМ R1 и R6 не были добавлены статические записи — в них нет нужды, потому как для отправки пакетов между узлами K1-K2, K2-K3, K3-K1 достаточно отправлять эти пакеты через их шлюзы по умолчанию.

\*В ТМ R2, R3, R4, R5 были добавлены маршруты до подсети с IP-адресом

200.0.1.0 для доставок с K2 до K1 и с K3 до K1 (доставка с K1 до K2 и с K1 до K3 осуществляется с помощью шлюзов по умолчанию).

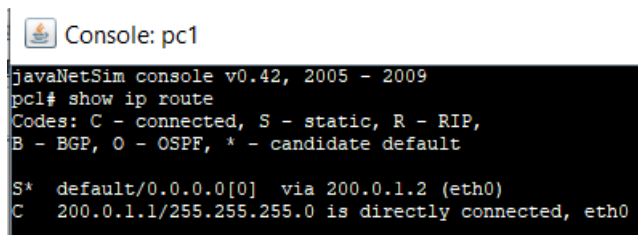
\*В ТМ R4, R5 были добавлены маршруты до подсети с IP-адресом 200.0.3.0 для доставок с K2 до K3 (доставка с K3 до K2 осуществляется с помощью шлюзов по умолчанию).

\*Пакеты доходят кратчайшими путями (кроме K1-K3), потому как проходят до узла назначения через минимально возможное количество устройств на своем пути (это хорошо видно в силу специфики сети, ведь только в одном ее месте одно устройство подключено сразу к двум маршрутизаторам напрямую (находится с ними в одной подсети)).

\*На данном этапе маршрут между узлами K1-K3 не является кратчайшим, потому как K3 одновременно находится в одной подсети с двумя маршрутизаторами — шлюз по умолчанию у него может выходить только на один из них, в данной лабораторной работе он выходит на R3 (если бы шлюз по умолчанию выходил на R2, то маршрут был бы наиболее коротким).

3. Таблицы маршрутизации для всех представленных в лабораторной маршрутизаторов:

K1:

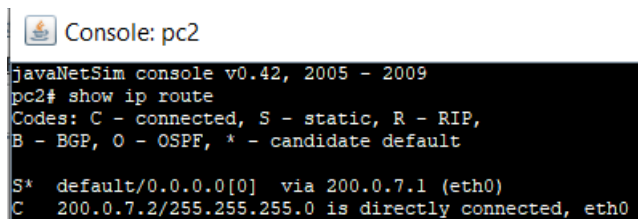


```
Console: pc1
javaNetSim console v0.42, 2005 - 2009
pc1# show ip route
Codes: C - connected, S - static, R - RIP,
B - BGP, O - OSPF, * - candidate default

S* default/0.0.0.0[0] via 200.0.1.2 (eth0)
C 200.0.1.1/255.255.255.0 is directly connected, eth0
```

Рисунок 8. ТМ для K1

K2:



```
Console: pc2
javaNetSim console v0.42, 2005 - 2009
pc2# show ip route
Codes: C - connected, S - static, R - RIP,
B - BGP, O - OSPF, * - candidate default

S* default/0.0.0.0[0] via 200.0.7.1 (eth0)
C 200.0.7.2/255.255.255.0 is directly connected, eth0
```

Рисунок 9. ТМ для K2

К3:

```

javaNetSim console v0.42, 2005 - 2009
pc3# show ip route
Codes: C - connected, S - static, R - RIP,
B - BGP, O - OSPF, * - candidate default

S    200.0.1.0/255.255.255.0[0] via 200.0.3.1 (eth0)
S*   default/0.0.0.0[0] via 200.0.3.3 (eth0)
C    200.0.3.2/255.255.255.0 is directly connected, eth0

```

Рисунок 10. ТМ для К3

\*В ТМ К1, К2 не были добавлены статические записи — в них нет нужды, потому как для отправки пакетов между узлами К1-К2, К2-К3, К3-К1 достаточно отправлять эти пакеты через их шлюзы по умолчанию.

\*В ТМ К3 был добавлен маршрут до подсети с IP-адресом 200.0.1.0 — он необходим, чтобы путь пакетов между узлами К1-К3 был кратчайшим.

Echo-запросы:

К1-К2:

К1 > К2:

00:16:47-035	pc1	Echo Request Packet	Network	Created Echo Request packet to 200.0.7.2
00:16:47-037	pc1	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.1.2
00:16:47-037	pc1	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:16:47-037	pc1	Ethernet Packet	Link	Sending packet from interface 90:59:7D:58:6A:54
00:16:47-037	R1	Ethernet Packet	Link	Recieved and accepted packet at interface 65:6F:9F:35:46:9E
00:16:47-037	R1	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-037	R1	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-037	R1	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.1.1
00:16:47-037	R1	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.1.1).
00:16:47-037	R1	Ethernet Packet	Link	Sending packet from interface 65:6F:9F:35:46:9E
00:16:47-037	pc1	Ethernet Packet	Link	Recieved and accepted packet at interface 90:59:7D:58:6A:54
00:16:47-037	pc1	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-037	pc1	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-037	pc1	ICMP_packet	Network	Sending packet from ProtocolStack (to 200.0.1.2).
00:16:47-037	pc1	Ethernet Packet	Link	Sending packet from interface 90:59:7D:58:6A:54
00:16:47-037	R1	Ethernet Packet	Link	Recieved and accepted packet at interface 65:6F:9F:35:46:9E
00:16:47-037	R1	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-037	R1	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:16:47-038	R1	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.2.2
00:16:47-038	R1	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:16:47-038	R1	Ethernet Packet	Link	Sending packet from interface 72:C2:8A:BF:47:70
00:16:47-038	R2	Ethernet Packet	Link	Recieved and accepted packet at interface A2:18:12:1C:7B:20
00:16:47-038	R2	ARP_packet	Network	ProtocolStack received packet from local Interface.

00:16:47-038	R2	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-038	R2	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.2.1
00:16:47-038	R2	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.2.1).
00:16:47-038	R2	Ethernet Packet	Link	Sending packet from interface A2:18:12:1C:7B:20
00:16:47-038	R1	Ethernet Packet	Link	Recieved and accepted packet at interface 72:C2:8A:BF:47:70
00:16:47-038	R1	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-038	R1	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-038	R1	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.2.2).
00:16:47-038	R1	Ethernet Packet	Link	Sending packet from interface 72:C2:8A:BF:47:70
00:16:47-038	R2	Ethernet Packet	Link	Recieved and accepted packet at interface A2:18:12:1C:7B:20
00:16:47-038	R2	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-038	R2	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:16:47-038	R2	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.3.3
00:16:47-038	R2	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:16:47-038	R2	Ethernet Packet	Link	Sending packet from interface AD:76:21:56:58:32
00:16:47-038	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 1A:C1:2D:A3:B0:7D
00:16:47-038	R3	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-038	R3	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-038	R3	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.3.1
00:16:47-038	R3	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.3.1).
00:16:47-038	R3	Ethernet Packet	Link	Sending packet from interface 1A:C1:2D:A3:B0:7D
00:16:47-038	R2	Ethernet Packet	Link	Recieved and accepted packet at interface AD:76:21:56:58:32
00:16:47-038	R2	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-038	R2	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-038	pc3	Ethernet Packet	Link	Recieved and dropped packet at interface A7:B7:BA:9A:B1:1C
00:16:47-038	pc3	Ethernet Packet	Link	Recieved and accepted packet at interface A7:B7:BA:9A:B1:1C
00:16:47-038	pc3	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-038	R2	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.3.3).
00:16:47-038	R2	Ethernet Packet	Link	Sending packet from interface AD:76:21:56:58:32
00:16:47-038	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 1A:C1:2D:A3:B0:7D
00:16:47-038	R3	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-038	R3	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:16:47-038	R3	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.4.2
00:16:47-038	R3	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:16:47-038	R3	Ethernet Packet	Link	Sending packet from interface 3C:C4:28:19:B4:B9
00:16:47-038	R4	Ethernet Packet	Link	Recieved and accepted packet at interface 72:62:97:C4:6C:AA
00:16:47-038	R4	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-038	R4	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-038	R4	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.4.1
00:16:47-038	R4	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.4.1).
00:16:47-038	R4	Ethernet Packet	Link	Sending packet from interface 72:62:97:C4:6C:AA



00:16:47-038	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 3C:C4:28:19:B4:B9
00:16:47-038	R3	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-039	R3	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-039	R3	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.4.2).
00:16:47-039	R3	Ethernet Packet	Link	Sending packet from interface 3C:C4:28:19:B4:B9
00:16:47-039	R4	Ethernet Packet	Link	Recieved and accepted packet at interface 72:62:97:C4:6C:AA
00:16:47-039	R4	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-039	R4	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:16:47-039	R4	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.5.2
00:16:47-039	R4	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:16:47-039	R4	Ethernet Packet	Link	Sending packet from interface 82:42:2D:80:92:C7
00:16:47-039	R5	Ethernet Packet	Link	Recieved and accepted packet at interface 4D:59:1E:4C:8F:55
00:16:47-039	R5	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-039	R5	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-039	R5	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.5.1
00:16:47-039	R5	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.5.1).
00:16:47-039	R5	Ethernet Packet	Link	Sending packet from interface 4D:59:1E:4C:8F:55
00:16:47-039	R4	Ethernet Packet	Link	Recieved and accepted packet at interface 82:42:2D:80:92:C7
00:16:47-039	R4	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-039	R4	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-039	R4	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.5.2).
00:16:47-039	R4	Ethernet Packet	Link	Sending packet from interface 82:42:2D:80:92:C7
00:16:47-039	R5	Ethernet Packet	Link	Recieved and accepted packet at interface 4D:59:1E:4C:8F:55
00:16:47-039	R5	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-039	R5	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:16:47-039	R5	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.6.2
00:16:47-039	R5	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:16:47-039	R5	Ethernet Packet	Link	Sending packet from interface 73:A0:8C:A7:79:23
00:16:47-039	R6	Ethernet Packet	Link	Recieved and accepted packet at interface A0:B2:6F:66:11:44
00:16:47-039	R6	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-039	R6	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-039	R6	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.6.1
00:16:47-039	R6	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.6.1).
00:16:47-039	R6	Ethernet Packet	Link	Sending packet from interface A0:B2:6F:66:11:44
00:16:47-039	R5	Ethernet Packet	Link	Recieved and accepted packet at interface 73:A0:8C:A7:79:23
00:16:47-039	R5	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-039	R5	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-039	R5	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.6.2).
00:16:47-039	R5	Ethernet Packet	Link	Sending packet from interface 73:A0:8C:A7:79:23
00:16:47-039	R6	Ethernet Packet	Link	Recieved and accepted packet at interface A0:B2:6F:66:11:44
00:16:47-039	R6	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-039	R6	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:16:47-039	R6	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.7.2

00:16:47-039	R6	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:16:47-039	R6	Ethernet Packet	Link	Sending packet from interface 44:BA:7D:C1:8B:67
00:16:47-039	pc2	Ethernet Packet	Link	Recieved and accepted packet at interface 67:45:3D:66:72:60
00:16:47-040	pc2	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-040	pc2	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-040	pc2	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.7.1
00:16:47-040	pc2	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.7.1).
00:16:47-040	pc2	Ethernet Packet	Link	Sending packet from interface 67:45:3D:66:72:60
00:16:47-040	R6	Ethernet Packet	Link	Recieved and accepted packet at interface 44:BA:7D:C1:8B:67
00:16:47-040	R6	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-040	R6	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-040	R6	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.7.2).
00:16:47-040	R6	Ethernet Packet	Link	Sending packet from interface 44:BA:7D:C1:8B:67
00:16:47-040	pc2	Ethernet Packet	Link	Recieved and accepted packet at interface 67:45:3D:66:72:60
00:16:47-040	pc2	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-040	pc2	ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-040	pc2	Echo Reply Packet	Network	Created Echo Reply packet to 200.0.1.1
00:16:47-040	pc2	ICMP_packet	Network	Sending packet from ProtocolStack (to 200.0.7.1).
00:16:47-040	pc2	Ethernet Packet	Link	Sending packet from interface 67:45:3D:66:72:60
00:16:47-040	R6	Ethernet Packet	Link	Recieved and accepted packet at interface 44:BA:7D:C1:8B:67
00:16:47-040	R6	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-040	R6	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:16:47-040	R6	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.6.1).
00:16:47-040	R6	Ethernet Packet	Link	Sending packet from interface A0:B2:6F:66:11:44
00:16:47-040	R5	Ethernet Packet	Link	Recieved and accepted packet at interface 73:A0:8C:A7:79:23
00:16:47-040	R5	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-040	R5	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:16:47-040	R5	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.5.1).
00:16:47-041	R5	Ethernet Packet	Link	Sending packet from interface 4D:59:1E:4C:8F:55
00:16:47-041	R4	Ethernet Packet	Link	Recieved and accepted packet at interface 82:42:2D:80:92:C7
00:16:47-041	R4	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-041	R4	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:16:47-041	R4	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.4.1).
00:16:47-041	R4	Ethernet Packet	Link	Sending packet from interface 72:62:97:C4:6C:AA
00:16:47-041	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 3C:C4:28:19:B4:B9
00:16:47-041	R3	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-041	R3	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:16:47-041	R3	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.3.1).
00:16:47-041	R3	Ethernet Packet	Link	Sending packet from interface 1A:C1:2D:A3:B0:7D
00:16:47-041	R2	Ethernet Packet	Link	Recieved and accepted packet at interface AD:76:21:56:58:32
00:16:47-041	R2	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-041	R2	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:16:47-041	R2	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.2.1).

00:16:47-042	R2	Ethernet Packet	Link	Sending packet from interface A2:18:12:1C:7B:20
00:16:47-042	R1	Ethernet Packet	Link	Recieved and accepted packet at interface 72:C2:8A:BF:47:70
00:16:47-042	R1	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-042	R1	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:16:47-042	R1	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.1.1).
00:16:47-042	R1	Ethernet Packet	Link	Sending packet from interface 65:6F:9F:35:46:9E
00:16:47-042	pc1	Ethernet Packet	Link	Recieved and accepted packet at interface 90:59:7D:58:6A:54
00:16:47-042	pc1	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:16:47-042	pc1	ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:16:47-042	pc1	Echo Reply Packet	Network	Echo reply packet received from 200.0.7.2
00:16:47-042	pc3	Ethernet Packet	Link	Recieved and dropped packet at interface A7:B7:BA:9A:B1:1C
00:16:47-042	pc3	Ethernet Packet	Link	Recieved and dropped packet at interface A7:B7:BA:9A:B1:1C

K2 > K1:

00:20:05-323	pc2	Echo Request Packet	Network	Created Echo Request packet to 200.0.1.1
00:20:05-323	pc2	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.7.1
00:20:05-323	pc2	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:20:05-323	pc2	Ethernet Packet	Link	Sending packet from interface 67:45:3D:66:72:60
00:20:05-323	R6	Ethernet Packet	Link	Recieved and accepted packet at interface 44:BA:7D:C1:8B:67
00:20:05-323	R6	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-323	R6	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-323	R6	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.7.2
00:20:05-323	R6	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.7.2).
00:20:05-323	R6	Ethernet Packet	Link	Sending packet from interface 44:BA:7D:C1:8B:67
00:20:05-323	pc2	Ethernet Packet	Link	Recieved and accepted packet at interface 67:45:3D:66:72:60
00:20:05-323	pc2	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-323	pc2	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-323	pc2	ICMP_packet	Network	Sending packet from ProtocolStack (to 200.0.7.1).
00:20:05-323	pc2	Ethernet Packet	Link	Sending packet from interface 67:45:3D:66:72:60
00:20:05-323	R6	Ethernet Packet	Link	Recieved and accepted packet at interface 44:BA:7D:C1:8B:67
00:20:05-323	R6	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-323	R6	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:20:05-323	R6	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.6.1
00:20:05-323	R6	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:20:05-323	R6	Ethernet Packet	Link	Sending packet from interface A0:B2:6F:66:11:44
00:20:05-323	R5	Ethernet Packet	Link	Recieved and accepted packet at interface 73:A0:8C:A7:79:23
00:20:05-323	R5	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-323	R5	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-323	R5	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.6.2
00:20:05-323	R5	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.6.2).

00:20:05-323	R5	Ethernet Packet	Link	Sending packet from interface 73:A0:8C:A7:79:23
00:20:05-323	R6	Ethernet Packet	Link	Recieved and accepted packet at interface A0:B2:6F:66:11:44
00:20:05-323	R6	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-323	R6	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-323	R6	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.6.1).
00:20:05-323	R6	Ethernet Packet	Link	Sending packet from interface A0:B2:6F:66:11:44
00:20:05-323	R5	Ethernet Packet	Link	Recieved and accepted packet at interface 73:A0:8C:A7:79:23
00:20:05-323	R5	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-323	R5	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:20:05-323	R5	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.5.1
00:20:05-323	R5	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:20:05-323	R5	Ethernet Packet	Link	Sending packet from interface 4D:59:1E:4C:8F:55
00:20:05-323	R4	Ethernet Packet	Link	Recieved and accepted packet at interface 82:42:2D:80:92:C7
00:20:05-323	R4	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-323	R4	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-323	R4	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.5.2
00:20:05-323	R4	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.5.2).
00:20:05-323	R4	Ethernet Packet	Link	Sending packet from interface 82:42:2D:80:92:C7
00:20:05-323	R5	Ethernet Packet	Link	Recieved and accepted packet at interface 4D:59:1E:4C:8F:55
00:20:05-323	R5	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-323	R5	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-323	R5	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.5.1).
00:20:05-323	R5	Ethernet Packet	Link	Sending packet from interface 4D:59:1E:4C:8F:55
00:20:05-323	R4	Ethernet Packet	Link	Recieved and accepted packet at interface 82:42:2D:80:92:C7
00:20:05-323	R4	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-323	R4	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:20:05-323	R4	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.4.1
00:20:05-323	R4	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:20:05-323	R4	Ethernet Packet	Link	Sending packet from interface 72:62:97:C4:6C:AA
00:20:05-323	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 3C:C4:28:19:B4:B9
00:20:05-323	R3	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-323	R3	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-324	R3	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.4.2
00:20:05-324	R3	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.4.2).
00:20:05-324	R3	Ethernet Packet	Link	Sending packet from interface 3C:C4:28:19:B4:B9
00:20:05-324	R4	Ethernet Packet	Link	Recieved and accepted packet at interface 72:62:97:C4:6C:AA
00:20:05-324	R4	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-324	R4	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-324	R4	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.4.1).
00:20:05-324	R4	Ethernet Packet	Link	Sending packet from interface 72:62:97:C4:6C:AA
00:20:05-324	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 3C:C4:28:19:B4:B9
00:20:05-324	R3	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-324	R3	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:20:05-324	R3	ARP Discovery	DataLink	Created ARP discovery packet to source MAC address for IP

		Packet		200.0.3.1
00:20:05-324	R3	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:20:05-324	R3	Ethernet Packet	Link	Sending packet from interface 1A:C1:2D:A3:B0:7D
00:20:05-324	R2	Ethernet Packet	Link	Recieved and accepted packet at interface AD:76:21:56:58:32
00:20:05-324	R2	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-324	R2	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-324	R2	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.3.3
00:20:05-324	R2	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.3.3).
00:20:05-324	R2	Ethernet Packet	Link	Sending packet from interface AD:76:21:56:58:32
00:20:05-324	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 1A:C1:2D:A3:B0:7D
00:20:05-324	R3	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-324	R3	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-324	pc3	Ethernet Packet	Link	Recieved and dropped packet at interface A7:B7:BA:9A:B1:1C
00:20:05-324	pc3	Ethernet Packet	Link	Recieved and accepted packet at interface A7:B7:BA:9A:B1:1C
00:20:05-324	pc3	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-324	R3	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.3.1).
00:20:05-324	R3	Ethernet Packet	Link	Sending packet from interface 1A:C1:2D:A3:B0:7D
00:20:05-324	R2	Ethernet Packet	Link	Recieved and accepted packet at interface AD:76:21:56:58:32
00:20:05-324	R2	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-324	R2	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:20:05-324	R2	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.2.1
00:20:05-324	R2	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:20:05-324	R2	Ethernet Packet	Link	Sending packet from interface A2:18:12:1C:7B:20
00:20:05-324	R1	Ethernet Packet	Link	Recieved and accepted packet at interface 72:C2:8A:BF:47:70
00:20:05-324	R1	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-324	R1	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-324	R1	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.2.2
00:20:05-324	R1	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.2.2).
00:20:05-324	R1	Ethernet Packet	Link	Sending packet from interface 72:C2:8A:BF:47:70
00:20:05-324	R2	Ethernet Packet	Link	Recieved and accepted packet at interface A2:18:12:1C:7B:20
00:20:05-324	R2	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-324	R2	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-324	R2	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.2.1).
00:20:05-324	R2	Ethernet Packet	Link	Sending packet from interface A2:18:12:1C:7B:20
00:20:05-324	R1	Ethernet Packet	Link	Recieved and accepted packet at interface 72:C2:8A:BF:47:70
00:20:05-324	R1	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-324	R1	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:20:05-324	R1	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.1.1
00:20:05-324	R1	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:20:05-324	R1	Ethernet Packet	Link	Sending packet from interface 65:6F:9F:35:46:9E
00:20:05-324	pc1	Ethernet Packet	Link	Recieved and accepted packet at interface 90:59:7D:58:6A:54
00:20:05-324	pc1	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-324	pc1	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.

00:20:05-324	pc1	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.1.2
00:20:05-324	pc1	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.1.2).
00:20:05-325	pc1	Ethernet Packet	Link	Sending packet from interface 90:59:7D:58:6A:54
00:20:05-325	R1	Ethernet Packet	Link	Recieved and accepted packet at interface 65:6F:9F:35:46:9E
00:20:05-325	R1	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-325	R1	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-325	R1	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.1.1).
00:20:05-325	R1	Ethernet Packet	Link	Sending packet from interface 65:6F:9F:35:46:9E
00:20:05-325	pc1	Ethernet Packet	Link	Recieved and accepted packet at interface 90:59:7D:58:6A:54
00:20:05-325	pc1	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-325	pc1	ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-325	pc1	Echo Reply Packet	Network	Created Echo Reply packet to 200.0.7.2
00:20:05-325	pc1	ICMP_packet	Network	Sending packet from ProtocolStack (to 200.0.1.2).
00:20:05-325	pc1	Ethernet Packet	Link	Sending packet from interface 90:59:7D:58:6A:54
00:20:05-325	R1	Ethernet Packet	Link	Recieved and accepted packet at interface 65:6F:9F:35:46:9E
00:20:05-325	R1	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-325	R1	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:20:05-325	R1	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.2.2).
00:20:05-325	R1	Ethernet Packet	Link	Sending packet from interface 72:C2:8A:BF:47:70
00:20:05-325	R2	Ethernet Packet	Link	Recieved and accepted packet at interface A2:18:12:1C:7B:20
00:20:05-325	R2	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-325	R2	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:20:05-325	R2	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.3.3).
00:20:05-325	R2	Ethernet Packet	Link	Sending packet from interface AD:76:21:56:58:32
00:20:05-325	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 1A:C1:2D:A3:B0:7D
00:20:05-325	R3	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-325	R3	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:20:05-325	R3	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.4.2).
00:20:05-325	R3	Ethernet Packet	Link	Sending packet from interface 3C:C4:28:19:B4:B9
00:20:05-325	R4	Ethernet Packet	Link	Recieved and accepted packet at interface 72:62:97:C4:6C:AA
00:20:05-325	R4	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-325	R4	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:20:05-325	R4	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.5.2).
00:20:05-325	R4	Ethernet Packet	Link	Sending packet from interface 82:42:2D:80:92:C7
00:20:05-325	R5	Ethernet Packet	Link	Recieved and accepted packet at interface 4D:59:1E:4C:8F:55
00:20:05-325	R5	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-325	R5	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:20:05-325	R5	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.6.2).
00:20:05-325	R5	Ethernet Packet	Link	Sending packet from interface 73:A0:8C:A7:79:23
00:20:05-325	R6	Ethernet Packet	Link	Recieved and accepted packet at interface A0:B2:6F:66:11:44
00:20:05-325	R6	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-325	R6	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:20:05-325	R6	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.7.2).

00:20:05-325	R6	Ethernet Packet	Link	Sending packet from interface 44:BA:7D:C1:8B:67
00:20:05-325	pc2	Ethernet Packet	Link	Recieved and accepted packet at interface 67:45:3D:66:72:60
00:20:05-325	pc2	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:20:05-325	pc2	ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:20:05-325	pc2	Echo Reply Packet	Network	Echo reply packet received from 200.0.1.1
00:20:05-325	pc3	Ethernet Packet	Link	Recieved and dropped packet at interface A7:B7:BA:9A:B1:1C

K2-K3:

K2 > K3:

00:21:38-113	pc2	Echo Request Packet	Network	Created Echo Request packet to 200.0.3.2
00:21:38-113	pc2	ICMP_packet	Network	Sending packet from ProtocolStack (to 200.0.7.1).
00:21:38-113	pc2	Ethernet Packet	Link	Sending packet from interface 67:45:3D:66:72:60
00:21:38-113	R6	Ethernet Packet	Link	Recieved and accepted packet at interface 44:BA:7D:C1:8B:67
00:21:38-113	R6	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:21:38-113	R6	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:21:38-113	R6	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.6.1).
00:21:38-113	R6	Ethernet Packet	Link	Sending packet from interface A0:B2:6F:66:11:44
00:21:38-113	R5	Ethernet Packet	Link	Recieved and accepted packet at interface 73:A0:8C:A7:79:23
00:21:38-113	R5	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:21:38-113	R5	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:21:38-113	R5	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.5.1).
00:21:38-113	R5	Ethernet Packet	Link	Sending packet from interface 4D:59:1E:4C:8F:55
00:21:38-113	R4	Ethernet Packet	Link	Recieved and accepted packet at interface 82:42:2D:80:92:C7
00:21:38-113	R4	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:21:38-113	R4	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:21:38-113	R4	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.4.1).
00:21:38-113	R4	Ethernet Packet	Link	Sending packet from interface 72:62:97:C4:6C:AA
00:21:38-113	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 3C:C4:28:19:B4:B9
00:21:38-113	R3	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:21:38-113	R3	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:21:38-113	R3	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.3.2
00:21:38-113	R3	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:21:38-113	R3	Ethernet Packet	Link	Sending packet from interface 1A:C1:2D:A3:B0:7D
00:21:38-113	R2	Ethernet Packet	Link	Recieved and accepted packet at interface AD:76:21:56:58:32
00:21:38-113	R2	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:21:38-113	pc3	Ethernet Packet	Link	Recieved and accepted packet at interface A7:B7:BA:9A:B1:1C
00:21:38-113	pc3	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:21:38-113	pc3	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:21:38-113	pc3	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.3.3

00:21:38-113	pc3	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.3.3).
00:21:38-113	pc3	Ethernet Packet	Link	Sending packet from interface A7:B7:BA:9A:B1:1C
00:21:38-113	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 1A:C1:2D:A3:B0:7D
00:21:38-113	R3	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:21:38-113	R3	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:21:38-113	R2	Ethernet Packet	Link	Recieved and dropped packet at interface AD:76:21:56:58:32
00:21:38-113	R3	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.3.2).
00:21:38-113	R3	Ethernet Packet	Link	Sending packet from interface 1A:C1:2D:A3:B0:7D
00:21:38-113	R2	Ethernet Packet	Link	Recieved and dropped packet at interface AD:76:21:56:58:32
00:21:38-113	pc3	Ethernet Packet	Link	Recieved and accepted packet at interface A7:B7:BA:9A:B1:1C
00:21:38-113	pc3	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:21:38-113	pc3	ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:21:38-113	pc3	Echo Reply Packet	Network	Created Echo Reply packet to 200.0.7.2
00:21:38-113	pc3	ICMP_packet	Network	Sending packet from ProtocolStack (to 200.0.3.3).
00:21:38-113	pc3	Ethernet Packet	Link	Sending packet from interface A7:B7:BA:9A:B1:1C
00:21:38-113	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 1A:C1:2D:A3:B0:7D
00:21:38-113	R3	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:21:38-113	R3	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:21:38-113	R3	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.4.2).
00:21:38-113	R3	Ethernet Packet	Link	Sending packet from interface 3C:C4:28:19:B4:B9
00:21:38-114	R4	Ethernet Packet	Link	Recieved and accepted packet at interface 72:62:97:C4:6C:AA
00:21:38-114	R4	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:21:38-114	R4	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:21:38-114	R4	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.5.2).
00:21:38-114	R4	Ethernet Packet	Link	Sending packet from interface 82:42:2D:80:92:C7
00:21:38-114	R5	Ethernet Packet	Link	Recieved and accepted packet at interface 4D:59:1E:4C:8F:55
00:21:38-114	R5	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:21:38-114	R5	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:21:38-114	R5	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.6.2).
00:21:38-114	R5	Ethernet Packet	Link	Sending packet from interface 73:A0:8C:A7:79:23
00:21:38-114	R6	Ethernet Packet	Link	Recieved and accepted packet at interface A0:B2:6F:66:11:44
00:21:38-114	R6	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:21:38-114	R6	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:21:38-114	R6	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.7.2).
00:21:38-114	R6	Ethernet Packet	Link	Sending packet from interface 44:BA:7D:C1:8B:67
00:21:38-114	pc2	Ethernet Packet	Link	Recieved and accepted packet at interface 67:45:3D:66:72:60
00:21:38-114	pc2	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:21:38-114	pc2	ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:21:38-114	pc2	Echo Reply Packet	Network	Echo reply packet received from 200.0.3.2
00:21:38-114	R2	Ethernet Packet	Link	Recieved and dropped packet at interface AD:76:21:56:58:32



## K3>K2:

00:23:54-016	pc3	Echo Request Packet	Network	Created Echo Request packet to 200.0.7.2
00:23:54-016	pc3	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.3.3
00:23:54-016	pc3	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:23:54-016	pc3	Ethernet Packet	Link	Sending packet from interface A7:B7:BA:9A:B1:1C
00:23:54-016	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 1A:C1:2D:A3:B0:7D
00:23:54-016	R3	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-016	R3	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:23:54-016	R3	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.3.2
00:23:54-016	R3	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.3.2).
00:23:54-016	R3	Ethernet Packet	Link	Sending packet from interface 1A:C1:2D:A3:B0:7D
00:23:54-016	R2	Ethernet Packet	Link	Recieved and dropped packet at interface AD:76:21:56:58:32
00:23:54-016	pc3	Ethernet Packet	Link	Recieved and accepted packet at interface A7:B7:BA:9A:B1:1C
00:23:54-016	pc3	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-016	pc3	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:23:54-016	R2	Ethernet Packet	Link	Recieved and accepted packet at interface AD:76:21:56:58:32
00:23:54-016	R2	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-016	pc3	ICMP_packet	Network	Sending packet from ProtocolStack (to 200.0.3.3).
00:23:54-016	pc3	Ethernet Packet	Link	Sending packet from interface A7:B7:BA:9A:B1:1C
00:23:54-016	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 1A:C1:2D:A3:B0:7D
00:23:54-016	R3	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-016	R3	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:23:54-016	R3	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.4.2
00:23:54-016	R3	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:23:54-016	R3	Ethernet Packet	Link	Sending packet from interface 3C:C4:28:19:B4:B9
00:23:54-016	R4	Ethernet Packet	Link	Recieved and accepted packet at interface 72:62:97:C4:6C:AA
00:23:54-016	R4	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-016	R4	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:23:54-016	R4	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.4.1
00:23:54-016	R4	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.4.1).
00:23:54-016	R4	Ethernet Packet	Link	Sending packet from interface 72:62:97:C4:6C:AA
00:23:54-016	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 3C:C4:28:19:B4:B9
00:23:54-016	R3	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-016	R3	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:23:54-016	R3	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.4.2).
00:23:54-016	R3	Ethernet Packet	Link	Sending packet from interface 3C:C4:28:19:B4:B9
00:23:54-016	R4	Ethernet Packet	Link	Recieved and accepted packet at interface 72:62:97:C4:6C:AA
00:23:54-016	R4	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-016	R4	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:23:54-016	R4	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.5.2
00:23:54-017	R4	ARP_packet	Network	Sending broadcast packet from ProtocolStack.

00:23:54-017	R4	Ethernet Packet	Link	Sending packet from interface 82:42:2D:80:92:C7
00:23:54-017	R5	Ethernet Packet	Link	Recieved and accepted packet at interface 4D:59:1E:4C:8F:55
00:23:54-017	R5	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-017	R5	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:23:54-017	R5	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.5.1
00:23:54-017	R5	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.5.1).
00:23:54-017	R5	Ethernet Packet	Link	Sending packet from interface 4D:59:1E:4C:8F:55
00:23:54-017	R4	Ethernet Packet	Link	Recieved and accepted packet at interface 82:42:2D:80:92:C7
00:23:54-017	R4	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-017	R4	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:23:54-017	R4	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.5.2).
00:23:54-017	R4	Ethernet Packet	Link	Sending packet from interface 82:42:2D:80:92:C7
00:23:54-017	R5	Ethernet Packet	Link	Recieved and accepted packet at interface 4D:59:1E:4C:8F:55
00:23:54-017	R5	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-017	R5	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:23:54-017	R5	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.6.2
00:23:54-017	R5	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:23:54-017	R5	Ethernet Packet	Link	Sending packet from interface 73:A0:8C:A7:79:23
00:23:54-017	R6	Ethernet Packet	Link	Recieved and accepted packet at interface A0:B2:6F:66:11:44
00:23:54-017	R6	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-017	R6	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:23:54-017	R6	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.6.1
00:23:54-017	R6	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.6.1).
00:23:54-017	R6	Ethernet Packet	Link	Sending packet from interface A0:B2:6F:66:11:44
00:23:54-017	R5	Ethernet Packet	Link	Recieved and accepted packet at interface 73:A0:8C:A7:79:23
00:23:54-017	R5	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-017	R5	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:23:54-017	R5	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.6.2).
00:23:54-017	R5	Ethernet Packet	Link	Sending packet from interface 73:A0:8C:A7:79:23
00:23:54-017	R6	Ethernet Packet	Link	Recieved and accepted packet at interface A0:B2:6F:66:11:44
00:23:54-017	R6	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-017	R6	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:23:54-017	R6	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.7.2
00:23:54-017	R6	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:23:54-017	R6	Ethernet Packet	Link	Sending packet from interface 44:BA:7D:C1:8B:67
00:23:54-017	pc2	Ethernet Packet	Link	Recieved and accepted packet at interface 67:45:3D:66:72:60
00:23:54-017	pc2	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-017	pc2	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:23:54-017	pc2	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.7.1
00:23:54-017	pc2	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.7.1).
00:23:54-017	pc2	Ethernet Packet	Link	Sending packet from interface 67:45:3D:66:72:60
00:23:54-017	R6	Ethernet Packet	Link	Recieved and accepted packet at interface 44:BA:7D:C1:8B:67
00:23:54-017	R6	ARP_packet	Network	ProtocolStack received packet from local Interface.

00:23:54-017	R6	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:23:54-017	R6	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.7.2).
00:23:54-017	R6	Ethernet Packet	Link	Sending packet from interface 44:BA:7D:C1:8B:67
00:23:54-017	pc2	Ethernet Packet	Link	Recieved and accepted packet at interface 67:45:3D:66:72:60
00:23:54-017	pc2	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-017	pc2	ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:23:54-017	pc2	Echo Reply Packet	Network	Created Echo Reply packet to 200.0.3.2
00:23:54-017	pc2	ICMP_packet	Network	Sending packet from ProtocolStack (to 200.0.7.1).
00:23:54-017	pc2	Ethernet Packet	Link	Sending packet from interface 67:45:3D:66:72:60
00:23:54-017	R6	Ethernet Packet	Link	Recieved and accepted packet at interface 44:BA:7D:C1:8B:67
00:23:54-017	R6	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-017	R6	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:23:54-017	R6	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.6.1).
00:23:54-017	R6	Ethernet Packet	Link	Sending packet from interface A0:B2:6F:66:11:44
00:23:54-017	R5	Ethernet Packet	Link	Recieved and accepted packet at interface 73:A0:8C:A7:79:23
00:23:54-017	R5	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-017	R5	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:23:54-017	R5	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.5.1).
00:23:54-017	R5	Ethernet Packet	Link	Sending packet from interface 4D:59:1E:4C:8F:55
00:23:54-017	R4	Ethernet Packet	Link	Recieved and accepted packet at interface 82:42:2D:80:92:C7
00:23:54-017	R4	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-017	R4	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:23:54-017	R4	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.4.1).
00:23:54-017	R4	Ethernet Packet	Link	Sending packet from interface 72:62:97:C4:6C:AA
00:23:54-017	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 3C:C4:28:19:B4:B9
00:23:54-017	R3	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-017	R3	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:23:54-017	R3	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.3.2).
00:23:54-017	R3	Ethernet Packet	Link	Sending packet from interface 1A:C1:2D:A3:B0:7D
00:23:54-018	R2	Ethernet Packet	Link	Recieved and dropped packet at interface AD:76:21:56:58:32
00:23:54-018	pc3	Ethernet Packet	Link	Recieved and accepted packet at interface A7:B7:BA:9A:B1:1C
00:23:54-018	pc3	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:23:54-018	pc3	ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:23:54-018	pc3	Echo Reply Packet	Network	Echo reply packet received from 200.0.7.2
00:23:54-018	R2	Ethernet Packet	Link	Recieved and dropped packet at interface AD:76:21:56:58:32

K3-K1:

K3>K1:

00:27:19-488	pc3	Echo Request Packet	Network	Created Echo Request packet to 200.0.1.1
00:27:19-488	pc3	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.3.1
00:27:19-488	pc3	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:27:19-488	pc3	Ethernet Packet	Link	Sending packet from interface A7:B7:BA:9A:B1:1C

00:27:19-488	R3	Ethernet Packet	Link	Recieved and accepted packet at interface 1A:C1:2D:A3:B0:7D
00:27:19-488	R3	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:27:19-488	R2	Ethernet Packet	Link	Recieved and accepted packet at interface AD:76:21:56:58:32
00:27:19-488	R2	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:27:19-488	R2	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:27:19-488	R2	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.3.2
00:27:19-488	R2	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.3.2).
00:27:19-488	R2	Ethernet Packet	Link	Sending packet from interface AD:76:21:56:58:32
00:27:19-488	R3	Ethernet Packet	Link	Recieved and dropped packet at interface 1A:C1:2D:A3:B0:7D
00:27:19-488	pc3	Ethernet Packet	Link	Recieved and accepted packet at interface A7:B7:BA:9A:B1:1C
00:27:19-488	pc3	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:27:19-488	pc3	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:27:19-488	pc3	ICMP_packet	Network	Sending packet from ProtocolStack (to 200.0.3.1).
00:27:19-488	pc3	Ethernet Packet	Link	Sending packet from interface A7:B7:BA:9A:B1:1C
00:27:19-488	R3	Ethernet Packet	Link	Recieved and dropped packet at interface 1A:C1:2D:A3:B0:7D
00:27:19-488	R2	Ethernet Packet	Link	Recieved and accepted packet at interface AD:76:21:56:58:32
00:27:19-488	R2	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:27:19-488	R2	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:27:19-488	R2	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.2.1
00:27:19-488	R2	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:27:19-488	R2	Ethernet Packet	Link	Sending packet from interface A2:18:12:1C:7B:20
00:27:19-488	R1	Ethernet Packet	Link	Recieved and accepted packet at interface 72:C2:8A:BF:47:70
00:27:19-488	R1	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:27:19-488	R1	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:27:19-488	R1	ARP Response Packet	DataLink	Created ARP Response packet to 200.0.2.2
00:27:19-488	R1	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.2.2).
00:27:19-488	R1	Ethernet Packet	Link	Sending packet from interface 72:C2:8A:BF:47:70
00:27:19-488	R2	Ethernet Packet	Link	Recieved and accepted packet at interface A2:18:12:1C:7B:20
00:27:19-488	R2	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:27:19-488	R2	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:27:19-488	R2	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.2.1).
00:27:19-488	R2	Ethernet Packet	Link	Sending packet from interface A2:18:12:1C:7B:20
00:27:19-488	R1	Ethernet Packet	Link	Recieved and accepted packet at interface 72:C2:8A:BF:47:70
00:27:19-488	R1	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:27:19-488	R1	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:27:19-488	R1	ARP Discovery Packet	DataLink	Created ARP discovery packet to source MAC address for IP 200.0.1.1
00:27:19-488	R1	ARP_packet	Network	Sending broadcast packet from ProtocolStack.
00:27:19-488	R1	Ethernet Packet	Link	Sending packet from interface 65:6F:9F:35:46:9E
00:27:19-488	pc1	Ethernet Packet	Link	Recieved and accepted packet at interface 90:59:7D:58:6A:54
00:27:19-488	pc1	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:27:19-488	pc1	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:27:19-488	pc1	ARP Response	DataLink	Created ARP Response packet to 200.0.1.2

		Packet		
00:27:19-488	pc1	ARP_packet	Network	Sending packet from ProtocolStack (to 200.0.1.2).
00:27:19-488	pc1	Ethernet Packet	Link	Sending packet from interface 90:59:7D:58:6A:54
00:27:19-488	R1	Ethernet Packet	Link	Recieved and accepted packet at interface 65:6F:9F:35:46:9E
00:27:19-488	R1	ARP_packet	Network	ProtocolStack received packet from local Interface.
00:27:19-488	R1	ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:27:19-488	R1	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.1.1).
00:27:19-488	R1	Ethernet Packet	Link	Sending packet from interface 65:6F:9F:35:46:9E
00:27:19-488	pc1	Ethernet Packet	Link	Recieved and accepted packet at interface 90:59:7D:58:6A:54
00:27:19-488	pc1	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:27:19-488	pc1	ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:27:19-488	pc1	Echo Reply Packet	Network	Created Echo Reply packet to 200.0.3.2
00:27:19-488	pc1	ICMP_packet	Network	Sending packet from ProtocolStack (to 200.0.1.2).
00:27:19-488	pc1	Ethernet Packet	Link	Sending packet from interface 90:59:7D:58:6A:54
00:27:19-488	R1	Ethernet Packet	Link	Recieved and accepted packet at interface 65:6F:9F:35:46:9E
00:27:19-488	R1	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:27:19-488	R1	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:27:19-488	R1	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.2.2).
00:27:19-488	R1	Ethernet Packet	Link	Sending packet from interface 72:C2:8A:BF:47:70
00:27:19-488	R2	Ethernet Packet	Link	Recieved and accepted packet at interface A2:18:12:1C:7B:20
00:27:19-488	R2	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:27:19-488	R2	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:27:19-488	R2	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.3.2).
00:27:19-488	R2	Ethernet Packet	Link	Sending packet from interface AD:76:21:56:58:32
00:27:19-488	R3	Ethernet Packet	Link	Recieved and dropped packet at interface 1A:C1:2D:A3:B0:7D
00:27:19-488	pc3	Ethernet Packet	Link	Recieved and accepted packet at interface A7:B7:BA:9A:B1:1C
00:27:19-488	pc3	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:27:19-488	pc3	ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:27:19-488	pc3	Echo Reply Packet	Network	Echo reply packet received from 200.0.1.1

### K1>K3:

00:28:34-495	pc1	Echo Request Packet	Network	Created Echo Request packet to 200.0.3.2
00:28:34-496	pc1	ICMP_packet	Network	Sending packet from ProtocolStack (to 200.0.1.2).
00:28:34-496	pc1	Ethernet Packet	Link	Sending packet from interface 90:59:7D:58:6A:54
00:28:34-496	R1	Ethernet Packet	Link	Recieved and accepted packet at interface 65:6F:9F:35:46:9E
00:28:34-496	R1	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:28:34-496	R1	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:28:34-496	R1	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.2.2).
00:28:34-496	R1	Ethernet Packet	Link	Sending packet from interface 72:C2:8A:BF:47:70
00:28:34-496	R2	Ethernet Packet	Link	Recieved and accepted packet at interface A2:18:12:1C:7B:20
00:28:34-496	R2	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:28:34-496	R2	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:28:34-496	R2	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.3.2).
00:28:34-496	R2	Ethernet Packet	Link	Sending packet from interface AD:76:21:56:58:32

00:28:34-496	R3	Ethernet Packet	Link	Recieved and dropped packet at interface 1A:C1:2D:A3:B0:7D
00:28:34-496	pc3	Ethernet Packet	Link	Recieved and accepted packet at interface A7:B7:BA:9A:B1:1C
00:28:34-496	pc3	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:28:34-496	pc3	ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:28:34-496	pc3	Echo Reply Packet	Network	Created Echo Reply packet to 200.0.1.1
00:28:34-496	pc3	ICMP_packet	Network	Sending packet from ProtocolStack (to 200.0.3.1).
00:28:34-496	pc3	Ethernet Packet	Link	Sending packet from interface A7:B7:BA:9A:B1:1C
00:28:34-496	R3	Ethernet Packet	Link	Recieved and dropped packet at interface 1A:C1:2D:A3:B0:7D
00:28:34-496	R2	Ethernet Packet	Link	Recieved and accepted packet at interface AD:76:21:56:58:32
00:28:34-496	R2	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:28:34-496	R2	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:28:34-496	R2	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.2.1).
00:28:34-496	R2	Ethernet Packet	Link	Sending packet from interface A2:18:12:1C:7B:20
00:28:34-496	R1	Ethernet Packet	Link	Recieved and accepted packet at interface 72:C2:8A:BF:47:70
00:28:34-496	R1	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:28:34-496	R1	ICMP_packet	Network	Packet Received: Network Layer Device is Routable forwarding packet.
00:28:34-496	R1	ICMP_packet	Network	Forwarding packet from ProtocolStack(to 200.0.1.1).
00:28:34-496	R1	Ethernet Packet	Link	Sending packet from interface 65:6F:9F:35:46:9E
00:28:34-496	pc1	Ethernet Packet	Link	Recieved and accepted packet at interface 90:59:7D:58:6A:54
00:28:34-496	pc1	ICMP_packet	Network	ProtocolStack received packet from local Interface.
00:28:34-496	pc1	ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
00:28:34-496	pc1	Echo Reply Packet	Network	Echo reply packet received from 200.0.3.2

## Вывод.

Было произведено изучение методов статической маршрутизации в IP-сетях; овладение управлением таблицами маршрутизации на узлах сетевого уровня.