Routing Solution for Congested Networks with Emphasis on Reducing Packet Loss

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Protocol

Our code simulates a network of interconnected routers. The routers each contain a buffer queue that can hold up to 10 packets, a numeric ID, and a buffer flag that signals when the router is getting congested, which in our case is when the buffer queue contains at least seven packets.

The protocol written for this project is meant to address congestion in a network, on the level of each router. Because each router contains a flag that signals its congestion, traffic is throttled at the router - router level. Preemptively throttling the network when a router signals congestion helps to prevent packet loss at the expense of sacrificing throughput.

The protocol is implemented primarily in the packet_path() function, as well as the auxiliary functions send_packet() and add_packet(). The packet_path() function contains the protocol for sending packets from the source router in the network to the destination router. The send_packet() function is used by packet_path() and simulates sending packets from two routers in the network that are directly connected, or only have one link between them. The add_packet() function is used by send_packet() and actually adds the packet passed to the function into the routers buffer queue. Packets are successfully added to a routers buffer queue as long as the buffer queue isn't full. If the routers buffer queue contains at least seven packets, the add_packet() function sets the routers buffer flag to true, signalling that the router is getting congested.

In order to send packets from one router to another, a path must be determined. The edges that connect the routers in the graph are unweighted, so the path is found using a minimum distance breadth first search algorithm.

In packet_path(), packets are sent from one router to another in the network until the router signals that it is getting congested, and until there are no more packets left to send to the destination router. To prevent packet loss, once a router signals that it is congested, it stops receiving packets, acknowledges the packets it has received, and then begins sending the packets it has received to the next router in the path. This process repeats itself until the packets arrive at their intended destination. Once at the destination router, the packets are acknowledged, and for each packet acknowledged by the destination router, the total number of packets left to be sent from source to destination is decremented. Once there are no longer any packets to be sent to the destination, the protocol terminates.

This protocol is designed to prevent any packets lost, and for all the scenarios explained in the Results section, there were no packets that were dropped. However, the protocol is coded to keep track of any packets that are not successfully sent, detected using booleans. If add_packet() or send_packet() returns false at any point, then packet_path() increments a counter. If 3 packets in a row fail to send, then the packet_path() function returns false and prints a message to the user stating where in the path the packets failed to send.

Novel Contribution

The novelty of the simulation is explored from the solution derived from the original problem. Overall, the solution is as follows, to traverse, simulate, and reduce packet loss in a congested, mesh network. The way the team approached this was to throttle the amount of packets sent from individual routers, through a set of buffer flags in the receiving router. Effectively, the network is throttled in a micro, by-router basis, differing from other networking protocols that addresses this in a more macro scale, as is the case for TCP Reno or TCP Tahoe. In addition to this, other networking protocols, such as the two mentioned previously, throttles the transmission rate after detecting packet loss. Comparatively, this protocol preemptively detects and throttles a high amount of traffic prior to any packet loss. As such, this solution is not ideal for tasks that require a higher throughput, such as streaming; however, it is well-suited for tasks that require very few packet loss, such as file sharing. Fig. 1-5 describes the process visually.

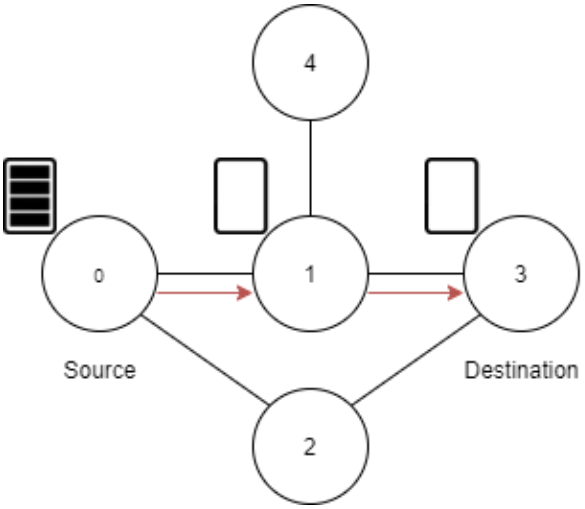


Figure 1: The initial state of the network. The total number of packets must be moved between source at Router 0 to destination at Router 3, whilst passing Router 1

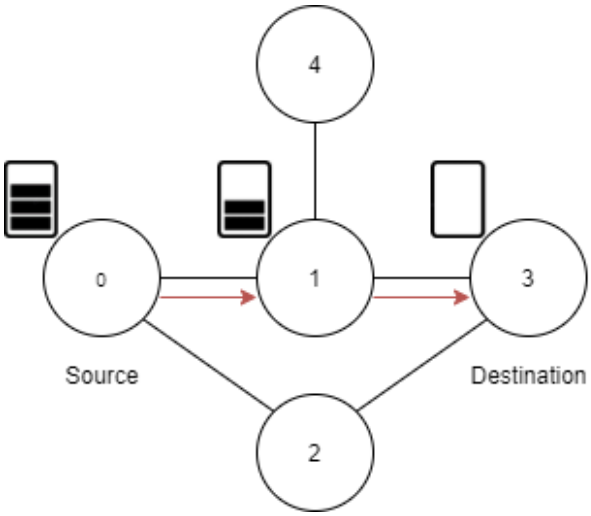
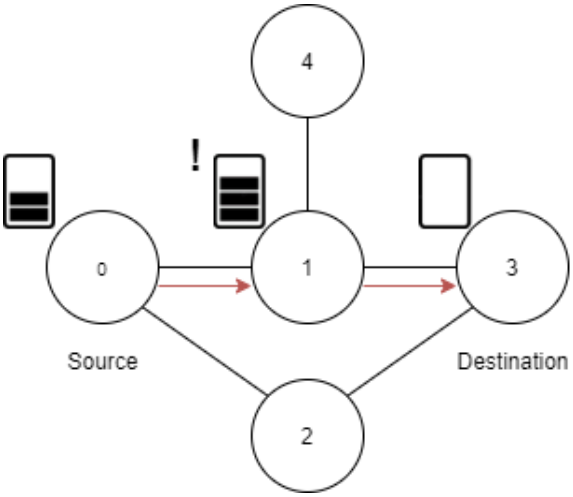


Figure 2: The buffer queue fills up at Router 1



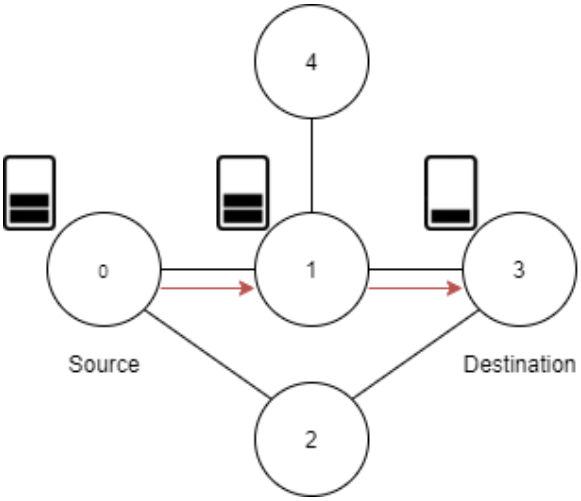


Figure 3: As soon as the buffer queue reaches a specified limit in Router 1, a flag is set to stop the flow of packets from the source router.

Figure 4: Router 1 will then clear its buffer queue by sending its packets to the destination before accepting any more

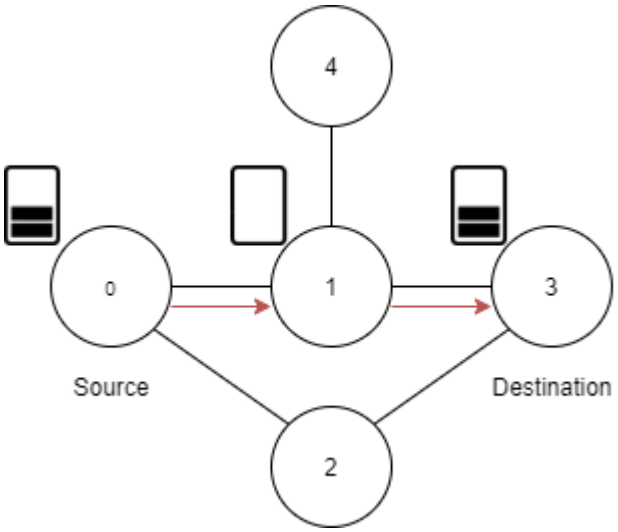


Figure 5: After Router 1 is empty, it will then continue sending packets from the source, to Router 1 and repeat the process above until the total number of packets is sent to the destination.

Results and Analysis

The following figures show the output for a graph containing 5 routers, and 5 edges. An explanation and analysis of the output follows the figures.

```
strangerdanger@ubuntu:~/CPE 400 Project/Pr
number of packets sent: 50
random src: 3 random dest: 2
The total packet is 50
new src: 3
new dest: 2
Packets left 49
new src: 3
new dest: 2
Packets left 48
new src: 3
new dest: 2
Packets left 47
new src: 3
new dest: 2
Packets left 46
new src: 3
new dest: 2
Packets left 45
new src: 3
new dest: 2
Packets left 44
new src: 3
new dest: 2
Packets left 43
new src: 3
new dest: 2
router flag value after set flag: 1
Packets left 42
The total packet is 42
new src: 3
new dest: 2
Packets left 41
new src: 3
new dest: 2
Packets left 40
new src: 3
new dest: 2
```

Figure 6:
Beginning of the output for a graph containing 5 routers and 5 edges. The path selected is from router 3 to router 2.

```
Packets left 39
new src: 3
new dest: 2
Packets left 38
new src: 3
new dest: 2
Packets left 37
new src: 3
new dest: 2
Packets left 36
new src: 3
new dest: 2
Packets left 35
new src: 3
new dest: 2
router flag value after set flag: 1
Packets left 34
The total packet is 34
new src: 3
new dest: 2
Packets left 33
new src: 3
new dest: 2
Packets left 32
new src: 3
new dest: 2
Packets left 31
new src: 3
new dest: 2
Packets left 30
new src: 3
new dest: 2
Packets left 29
new src: 3
new dest: 2
Packets left 28
new src: 3
new dest: 2
```

Figure 7:
Continued output from Fig 6. Packets are sent from routers 3 to 2.

```
Packets left 27
new src: 3
new dest: 2
router flag value after set flag: 1
Packets left 26
The total packet is 26
new src: 3
new dest: 2
Packets left 25
new src: 3
new dest: 2
Packets left 24
new src: 3
new dest: 2
Packets left 23
new src: 3
new dest: 2
Packets left 22
new src: 3
new dest: 2
Packets left 21
new src: 3
new dest: 2
Packets left 20
new src: 3
new dest: 2
Packets left 19
new src: 3
new dest: 2
router flag value after set flag: 1
Packets left 18
The total packet is 18
new src: 3
new dest: 2
Packets left 17
new src: 3
new dest: 2
Packets left 16
```

Figure 8:
Continued output from Fig 7. Packets are sent from routers 3 to 2.

```
new src: 3
new dest: 2
Packets left 15
new src: 3
new dest: 2
Packets left 14
new src: 3
new dest: 2
Packets left 13
new src: 3
new dest: 2
Packets left 12
new src: 3
new dest: 2
Packets left 11
new src: 3
new dest: 2
router flag value after set flag: 1
Packets left 10
The total packet is 10
new src: 3
new dest: 2
Packets left 9
new src: 3
new dest: 2
Packets left 8
new src: 3
new dest: 2
Packets left 7
new src: 3
new dest: 2
Packets left 6
new src: 3
new dest: 2
Packets left 5
new src: 3
new dest: 2
Packets left 4
```

Figure 9:
Continued output from Fig 8. Packets are sent from routers 3 to 2.

```
new dest: 2
Packets left 3
new src: 3
new dest: 2
router flag value after set flag: 1
Packets left 2
The total packet is 2
new src: 3
new dest: 2
Packets left 1
new src: 3
new dest: 2
Packets left 0
0
random src: 3 random dest: 0
The total packet is 50
new src: 3
new dest: 1
Packets left 50
new src: 3
new dest: 1
Packets left 50
new src: 3
new dest: 1
Packets left 50
new src: 3
new dest: 1
Packets left 50
new src: 3
new dest: 1
Packets left 50
new src: 3
new dest: 1
Packets left 50
new src: 3
new dest: 1
Packets left 50
```

Figure 10:

Continued output from Fig 9. Packets are sent from routers 3 to 2. The path selected is from router 3 to router 0. Packets are sent from router 3 to 1.

```
new src: 3
new dest: 1
router flag value after set flag: 1
Packets left 50
new src: 1
new dest: 0
Packets left 49
new src: 1
new dest: 0
Packets left 48
new src: 1
new dest: 0
Packets left 47
new src: 1
new dest: 0
Packets left 46
new src: 1
new dest: 0
Packets left 45
new src: 1
new dest: 0
Packets left 44
new src: 1
new dest: 0
Packets left 43
new src: 1
new dest: 0
router flag value after set flag: 1
Packets left 42
The total packet is 42
new src: 3
new dest: 1
Packets left 42
new src: 3
new dest: 1
Packets left 42
new src: 3
new dest: 1
```

Figure 11:

Continued output from Fig 10. Packets are sent from routers 3 to 1 and routers 1 to 0.

```
Packets left 42
new src: 3
new dest: 1
Packets left 42
new src: 3
new dest: 1
Packets left 42
new src: 3
new dest: 1
Packets left 42
new src: 3
new dest: 1
Packets left 42
new src: 3
new dest: 1
Packets left 42
new src: 3
new dest: 1
router flag value after set flag: 1
Packets left 42
new src: 1
new dest: 0
Packets left 41
new src: 1
new dest: 0
Packets left 40
new src: 1
new dest: 0
Packets left 39
new src: 1
new dest: 0
Packets left 38
new src: 1
new dest: 0
Packets left 37
new src: 1
new dest: 0
Packets left 36
new src: 1
new dest: 0
Packets left 35
```

Figure 12:

Continued output from Fig 11. Packets are sent from routers 3 to 1 and routers 1 to 0.

```
new dest: 0
router flag value after set flag: 1
Packets left 34
The total packet is 34
new src: 3
new dest: 1
Packets left 34
new src: 3
new dest: 1
Packets left 34
new src: 3
new dest: 1
Packets left 34
new src: 3
new dest: 1
Packets left 34
new src: 3
new dest: 1
Packets left 34
new src: 3
new dest: 1
Packets left 34
new src: 3
new dest: 1
Packets left 34
new src: 3
new dest: 1
Packets left 34
new src: 3
new dest: 1
router flag value after set flag: 1
Packets left 34
new src: 1
new dest: 0
Packets left 33
new src: 1
new dest: 0
Packets left 32
new src: 1
new dest: 0
```

Figure 13:

Continued output from Fig 12. Packets are sent from routers 3 to 1 and routers 1 to 0.

```
Packets left 31
new src: 1
new dest: 0
Packets left 30
new src: 1
new dest: 0
Packets left 29
new src: 1
new dest: 0
Packets left 28
new src: 1
new dest: 0
Packets left 27
new src: 1
new dest: 0
router flag value after set flag: 1
Packets left 26
The total packet is 26
new src: 3
new dest: 1
Packets left 26
new src: 3
new dest: 1
Packets left 26
new src: 3
new dest: 1
Packets left 26
new src: 3
new dest: 1
Packets left 26
new src: 3
new dest: 1
Packets left 26
new src: 3
new dest: 1
Packets left 26
new src: 3
new dest: 1
```

Figure 14:
Continued output from Fig 13. Packets are sent from routers 3 to 1 and routers 1 to 0.

```
Packets left 26
new src: 3
new dest: 1
router flag value after set flag: 1
Packets left 26
new src: 1
new dest: 0
Packets left 25
new src: 1
new dest: 0
Packets left 24
new src: 1
new dest: 0
Packets left 23
new src: 1
new dest: 0
Packets left 22
new src: 1
new dest: 0
Packets left 21
new src: 1
new dest: 0
Packets left 20
new src: 1
new dest: 0
Packets left 19
new src: 1
new dest: 0
router flag value after set flag: 1
Packets left 18
The total packet is 18
new src: 3
new dest: 1
Packets left 18
new src: 3
new dest: 1
Packets left 18
new src: 3
```

Figure 15:
Continued output from Fig 14. Packets are sent from routers 3 to 1 and routers 1 to 0.

```
new dest: 1
Packets left 18
new src: 3
new dest: 1
Packets left 18
new src: 3
new dest: 1
Packets left 18
new src: 3
new dest: 1
Packets left 18
new src: 3
new dest: 1
Packets left 18
new src: 3
new dest: 1
router flag value after set flag: 1
Packets left 18
new src: 1
new dest: 0
Packets left 17
new src: 1
new dest: 0
Packets left 16
new src: 1
new dest: 0
Packets left 15
new src: 1
new dest: 0
Packets left 14
new src: 1
new dest: 0
Packets left 13
new src: 1
new dest: 0
Packets left 12
new src: 1
new dest: 0
```

Figure 16:

Continued output from Fig 15. Packets are sent from routers 3 to 1 and routers 1 to 0.

```
Packets left 11
new src: 1
new dest: 0
router flag value after set flag: 1
Packets left 10
The total packet is 10
new src: 3
new dest: 1
Packets left 10
new src: 3
new dest: 1
Packets left 10
new src: 3
new dest: 1
Packets left 10
new src: 3
new dest: 1
Packets left 10
new src: 3
new dest: 1
Packets left 10
new src: 3
new dest: 1
Packets left 10
new src: 3
new dest: 1
Packets left 10
new src: 3
new dest: 1
router flag value after set flag: 1
Packets left 10
new src: 1
new dest: 0
Packets left 9
new src: 1
new dest: 0
Packets left 8
new src: 1
```

Figure 17:

Continued output from Fig 16. Packets are sent from routers 3 to 1 and routers 1 to 0.

```
new dest: 0
Packets left 7
new src: 1
new dest: 0
Packets left 6
new src: 1
new dest: 0
Packets left 5
new src: 1
new dest: 0
Packets left 4
new src: 1
new dest: 0
Packets left 3
new src: 1
new dest: 0
router flag value after set flag: 1
Packets left 2
The total packet is 2
new src: 3
new dest: 1
Packets left 2
new src: 3
new dest: 1
Packets left 2
new src: 3
new dest: 1
Packets left 2
new src: 3
new dest: 1
Packets left 2
new src: 3
new dest: 1
Packets left 2
new src: 3
new dest: 1
Packets left 2
new src: 3
```

Figure 18:
Continued output from Fig 17. Packets are sent from routers 3 to 1 and routers 1 to 0.

```
new dest: 1
Packets left 2
new src: 3
new dest: 1
router flag value after set flag: 1
Packets left 2
new src: 1
new dest: 0
Packets left 1
new src: 1
new dest: 0
Packets left 0
0
random src: 1 random dest: 2
The total packet is 50
new src: 1
new dest: 0
Packets left 50
new src: 1
new dest: 0
Packets left 50
new src: 1
new dest: 0
Packets left 50
new src: 1
new dest: 0
Packets left 50
new src: 1
new dest: 0
Packets left 50
new src: 1
new dest: 0
Packets left 50
new src: 1
new dest: 0
Packets left 50
new src: 1
new dest: 0
```

Figure 19:
Continued output from Fig 9. Packets are sent from routers 3 to 1 and 1 to 0. The path selected is from router 1 to router 2. Packets are sent from router 1 to 0.

In Fig 6, we are sending 50 packets to the destination router, reflected by the “Total packet is 50” statement. The main file is choosing a random source and destination router (called random src and random dest) which are 3 and 2 respectively.

In this case, the main file has selected two routers that are directly connected to one another.

In Fig 6 - 10, after packets are sent to the destination router, we decrement the total number of packets needed to be sent, represented by the “Packets left” statement. The packets are decremented right away in this case because the src and dest routers are directly connected.

The statement “router flag value after set flag” is printed once the add_packet() function sets the value of the buffer flag to be true, signalling that the router is getting congested. Once a router is congested, the source router will stop sending packets to the congested router, and the congested router will send the packets to the next router in the path. Because the congested router is also at the end of the path, it simulates sending the packets up to the application layer, which in this case is simply clearing its buffer queue. The router resets its buffer flag to false, since its queue is now empty.

Since there are still more packets to send, the protocol starts at the beginning of the path. This is reflected by the “Total packet is 42” statement. The process repeats itself until there are 0 packets left to send to the destination router, shown in Fig. 10.

This example shows that for two routers that are directly connected, no packets are dropped using this protocol, because once a router is congested, it stops receiving packets, and sends the packets in its buffer queue to the next router. The router does not start to receive packets again until it's no longer congested and its buffer flag is set to false.

In Fig. 10, the file picks another random router for source and destination, which is 3 and 0 respectively. These routers are not directly connected and the packet must traverse through other routers before arriving at the destination. As such, the total number of packets does not decrement until the first packet is received by the final destination router. The intermediary router’s buffer queue is filled until a flag is raised, as shown in Fig. 11. From here, the packets are then transferred from the intermediary router to the final destination router. As soon as the buffer queue is cleared from the second router, the protocol will continue sending packets from source, to the intermediary router, then the destination in the same process until all 50 packets have made their way from the source to the final destination.

Because 5 routers is the size of a rather small network, we have included the text output of our protocol with 50 routers sending 500 packets from a source and destination router in the Appendix. This output is for reference to show that despite larger networks and massive amounts of traffic, our protocol succeeds in delivering packets without loss, at the expense of throughput.

Appendix

The following output is for a graph containing 50 routers and 50 edges. Because the graph is large, the edges between routers were connected randomly in the main file. A source and destination router is chosen randomly, and 500 packets are sent between the two routers.

```
strangerdanger@ubuntu:~/CPE 400 Project/Project$ ./main
number of packets sent: 500
random src: 42 random dest: 33
Path is:
42 0 33 The total packet is 500
new src: 42
new dest: 0
Packets left 500
new src: 42
new dest: 0
Packets left 500
new src: 42
new dest: 0
Packets left 500
new src: 42
new dest: 0
Packets left 500
new src: 42
new dest: 0
Packets left 500
new src: 42
new dest: 0
Packets left 500
new src: 42
new dest: 0
Packets left 500
new src: 42
new dest: 0
router flag value after set flag: 1
Packets left 500
new src: 0
new dest: 33
Packets left 499
new src: 0
new dest: 33
Packets left 498
new src: 0
new dest: 33
Packets left 497
new src: 0
new dest: 33
Packets left 496
new src: 0
new dest: 33
Packets left 495
new src: 0
new dest: 33
Packets left 494
new src: 0
new dest: 33
Packets left 493
new src: 0
new dest: 33
router flag value after set flag: 1
Packets left 492
The total packet is 492
new src: 42
new dest: 0
Packets left 492
new src: 42
new dest: 0
Packets left 492
new src: 42
new dest: 0
Packets left 492
new src: 42
new dest: 0
Packets left 492
new src: 42
new dest: 0
Packets left 492
new src: 42
new dest: 0
Packets left 492
new src: 42
new dest: 0
router flag value after set flag: 1
Packets left 492
new src: 0
new dest: 33
Packets left 491
new src: 0
new dest: 33
Packets left 490
new src: 0
new dest: 33
Packets left 489
new src: 0
new dest: 33
Packets left 488
new src: 0
new dest: 33
Packets left 487
new src: 0
new dest: 33
Packets left 486
new src: 0
new dest: 33
Packets left 485
new src: 0
new dest: 33
router flag value after set flag: 1
Packets left 484
The total packet is 484
new src: 42
new dest: 0
Packets left 484
new src: 42
new dest: 0
Packets left 484
new src: 42
new dest: 0
Packets left 484
new src: 42
new dest: 0
Packets left 484
new src: 42
new dest: 0
Packets left 484
new src: 42
new dest: 0
Packets left 484
new src: 42
new dest: 0
router flag value after set flag: 1
Packets left 484
new src: 0
new dest: 33
Packets left 483
new src: 0
new dest: 33
Packets left 482
new src: 0
new dest: 33
Packets left 481
new src: 0
new dest: 33
Packets left 480
new src: 0
new dest: 33
Packets left 479
new src: 0
new dest: 33
Packets left 478
new src: 0
new dest: 33
```

Packets left 477
new src: 0
new dest: 33
router flag value after set flag: 1
Packets left 476
The total packet is 476
new src: 42
new dest: 0
Packets left 476
new src: 42
new dest: 0
Packets left 476
new src: 42
new dest: 0
Packets left 476
new src: 42
new dest: 0
Packets left 476
new src: 42
new dest: 0
Packets left 476
new src: 42
new dest: 0
Packets left 476
new src: 42
new dest: 0
router flag value after set flag: 1
Packets left 476
new src: 0
new dest: 33
Packets left 475
new src: 0
new dest: 33
Packets left 474
new src: 0
new dest: 33
Packets left 473
new src: 0
new dest: 33
Packets left 472
new src: 0
new dest: 33
Packets left 471
new src: 0
new dest: 33
Packets left 470
new src: 0
new dest: 33
Packets left 469
new src: 0
new dest: 33
router flag value after set flag: 1
Packets left 468
The total packet is 468
new src: 42
new dest: 0
Packets left 468
new src: 42
new dest: 0
Packets left 468
new src: 42
new dest: 0
Packets left 468
new src: 42
new dest: 0
Packets left 468
new src: 42
new dest: 0
Packets left 468
new src: 42
new dest: 0
Packets left 468
new src: 42
new dest: 0
Packets left 468
new src: 42
new dest: 0
router flag value after set flag: 1
Packets left 468
new src: 0
new dest: 33
Packets left 467
new src: 0
new dest: 33
Packets left 466
new src: 0
new dest: 33
Packets left 465
new src: 0
new dest: 33
Packets left 464
new src: 0
new dest: 33
Packets left 463
new src: 0
new dest: 33
Packets left 462
new src: 0
new dest: 33
Packets left 461
new src: 0
new dest: 33
router flag value after set flag: 1
Packets left 460
The total packet is 460
new src: 42
new dest: 0
Packets left 460
new src: 42
new dest: 0
Packets left 460
new src: 42
new dest: 0
Packets left 460
new src: 42
new dest: 0
Packets left 460
new src: 42
new dest: 0
Packets left 460
new src: 42
new dest: 0
Packets left 460
new src: 42
new dest: 0
router flag value after set flag: 1
Packets left 460
new src: 0
new dest: 33
Packets left 459
new src: 0
new dest: 33
Packets left 458
new src: 0
new dest: 33
Packets left 457
new src: 0
new dest: 33
Packets left 456
new src: 0
new dest: 33
Packets left 455
new src: 0
new dest: 33
Packets left 454
new src: 0
new dest: 33
Packets left 453
new src: 0
new dest: 33
router flag value after set flag: 1
Packets left 452
The total packet is 452
new src: 42
new dest: 0
Packets left 452
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new dest: 0
router flag value after set flag: 1

Packets left 452
new src: 0
new dest: 33
Packets left 451
new src: 0
new dest: 33
Packets left 450
new src: 0
new dest: 33
Packets left 449
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Packets left 448
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Packets left 447
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Packets left 446
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Packets left 445
new src: 0
new dest: 33
router flag value after set flag: 1
Packets left 444
The total packet is 444
new src: 42
new dest: 0
Packets left 444
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router flag value after set flag: 1
Packets left 444
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Packets left 443
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Packets left 442
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Packets left 439
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Packets left 438
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Packets left 437
new src: 0
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router flag value after set flag: 1
Packets left 436
The total packet is 436
new src: 42
new dest: 0
Packets left 436
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router flag value after set flag: 1
Packets left 436
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Packets left 435
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Packets left 433
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Packets left 432
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Packets left 431
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Packets left 430
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Packets left 429
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router flag value after set flag: 1
Packets left 428
The total packet is 428
new src: 42
new dest: 0
Packets left 428
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router flag value after set flag: 1
Packets left 428
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Packets left 427
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Packets left 426
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Packets left 425
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Packets left 424
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Packets left 423
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Packets left 422
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Packets left 421
new src: 0
new dest: 33
router flag value after set flag: 1
Packets left 420
The total packet is 420
new src: 42
new dest: 0
Packets left 420

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router flag value after set flag: 1
Packets left 420
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Packets left 419
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Packets left 416
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Packets left 415
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Packets left 414
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Packets left 413
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router flag value after set flag: 1
Packets left 412
The total packet is 412
new src: 42
new dest: 0
Packets left 412
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router flag value after set flag: 1
Packets left 412
new src: 0
new dest: 33
Packets left 411
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Packets left 410
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Packets left 409
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Packets left 408
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Packets left 407
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Packets left 406
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Packets left 405
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router flag value after set flag: 1
Packets left 404
The total packet is 404
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router flag value after set flag: 1
Packets left 404
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Packets left 403
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Packets left 402
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Packets left 401
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Packets left 400
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Packets left 399
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router flag value after set flag: 1
Packets left 396
The total packet is 396
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router flag value after set flag: 1
Packets left 396
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Packets left 393
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Packets left 392
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Packets left 391
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Packets left 390
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router flag value after set flag: 1
Packets left 388
The total packet is 388
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router flag value after set flag: 1
Packets left 388
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Packets left 387
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Packets left 386
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Packets left 385
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Packets left 384
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Packets left 383
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Packets left 382
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router flag value after set flag: 1
Packets left 380
The total packet is 380
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router flag value after set flag: 1
Packets left 380
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Packets left 376
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Packets left 375
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Packets left 374
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router flag value after set flag: 1
Packets left 372
The total packet is 372
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router flag value after set flag: 1
Packets left 372
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Packets left 371
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Packets left 370
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Packets left 369
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Packets left 367
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Packets left 366
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router flag value after set flag: 1
Packets left 364
The total packet is 364
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router flag value after set flag: 1
Packets left 364
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Packets left 363
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router flag value after set flag: 1
Packets left 356
The total packet is 356
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router flag value after set flag: 1
Packets left 356
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router flag value after set flag: 1
Packets left 348
The total packet is 348
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router flag value after set flag: 1
Packets left 348
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Packets left 347
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Packets left 342
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Packets left 341
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router flag value after set flag: 1
Packets left 340
The total packet is 340
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router flag value after set flag: 1
Packets left 340
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Packets left 339
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Packets left 338
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Packets left 337
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Packets left 336
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Packets left 335
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Packets left 334
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Packets left 333
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router flag value after set flag: 1
Packets left 332
The total packet is 332
new src: 42
new dest: 0
Packets left 332
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router flag value after set flag: 1
Packets left 332
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Packets left 331
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router flag value after set flag: 1
Packets left 324
The total packet is 324
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router flag value after set flag: 1
Packets left 324
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Packets left 318
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router flag value after set flag: 1
Packets left 316
The total packet is 316
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router flag value after set flag: 1
Packets left 316
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Packets left 315
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Packets left 310
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router flag value after set flag: 1
Packets left 308
The total packet is 308
new src: 42
new dest: 0
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router flag value after set flag: 1
Packets left 308
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Packets left 307
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Packets left 306
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Packets left 303
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Packets left 302
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Packets left 301
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router flag value after set flag: 1
Packets left 300
The total packet is 300
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new dest: 0
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router flag value after set flag: 1
Packets left 300
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Packets left 294
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router flag value after set flag: 1
Packets left 292
The total packet is 292
new src: 42
new dest: 0
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router flag value after set flag: 1
Packets left 292
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Packets left 291
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Packets left 287
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Packets left 286
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Packets left 285
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router flag value after set flag: 1
Packets left 284
The total packet is 284
new src: 42
new dest: 0
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router flag value after set flag: 1
Packets left 284
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Packets left 283
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Packets left 282
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Packets left 281
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Packets left 279
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Packets left 278
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Packets left 277
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router flag value after set flag: 1
Packets left 276
The total packet is 276

new src: 42
new dest: 0
Packets left 276
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Packets left 276
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router flag value after set flag: 1
Packets left 276
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Packets left 275
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Packets left 274
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new dest: 33
Packets left 270
new src: 0
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Packets left 269
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router flag value after set flag: 1
Packets left 268
The total packet is 268
new src: 42
new dest: 0
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router flag value after set flag: 1
Packets left 268
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Packets left 267
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Packets left 266
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Packets left 265
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Packets left 263
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Packets left 262
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Packets left 261
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router flag value after set flag: 1
Packets left 260
The total packet is 260
new src: 42
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router flag value after set flag: 1
Packets left 260
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Packets left 258
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Packets left 257
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Packets left 256
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Packets left 255
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Packets left 254
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Packets left 253
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router flag value after set flag: 1
Packets left 252
The total packet is 252
new src: 42
new dest: 0
Packets left 252
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router flag value after set flag: 1
Packets left 252
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Packets left 251
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Packets left 250
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Packets left 249
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Packets left 246
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Packets left 245
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router flag value after set flag: 1
Packets left 244
The total packet is 244
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Packets left 244
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router flag value after set flag: 1
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router flag value after set flag: 1
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router flag value after set flag: 1
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The total packet is 116
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router flag value after set flag: 1
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router flag value after set flag: 1
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The total packet is 108
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router flag value after set flag: 1
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router flag value after set flag: 1
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The total packet is 84
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router flag value after set flag: 1
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The total packet is 76
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router flag value after set flag: 1
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The total packet is 68
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router flag value after set flag: 1
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The total packet is 60
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router flag value after set flag: 1
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router flag value after set flag: 1
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The total packet is 36
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new dest: 0
Packets left 36
new src: 42
new dest: 0
Packets left 36
new src: 42
new dest: 0
router flag value after set flag: 1
Packets left 36
new src: 0
new dest: 33
Packets left 35
new src: 0
new dest: 33
Packets left 34
new src: 0
new dest: 33
Packets left 33
new src: 0
new dest: 33
Packets left 32
new src: 0
new dest: 33
Packets left 31
new src: 0
new dest: 33
Packets left 30
new src: 0
new dest: 33
Packets left 29
new src: 0
new dest: 33
router flag value after set flag: 1
Packets left 28
The total packet is 28
new src: 42
new dest: 0
Packets left 28
new src: 42
new dest: 0
Packets left 28
new src: 42
new dest: 0
Packets left 28
new src: 42
new dest: 0
Packets left 28
new src: 42
new dest: 0
Packets left 28
new src: 42
new dest: 0
Packets left 28
new src: 42
new dest: 0
Packets left 28
new src: 42
new dest: 0
router flag value after set flag: 1
Packets left 28
new src: 0
new dest: 33
Packets left 27
new src: 0
new dest: 33
Packets left 26
new src: 0
new dest: 33
Packets left 25
new src: 0
new dest: 33
Packets left 24
new src: 0
new dest: 33
Packets left 23
new src: 0
new dest: 33
Packets left 22
new src: 0
new dest: 33
Packets left 21
new src: 0
new dest: 33
router flag value after set flag: 1
Packets left 20
The total packet is 20
new src: 42
new dest: 0
Packets left 20
new src: 42
new dest: 0
Packets left 20
new src: 42
new dest: 0
Packets left 20
new src: 42
new dest: 0
Packets left 20

new src: 42
new dest: 0
Packets left 20
new src: 42
new dest: 0
Packets left 20
new src: 42
new dest: 0
router flag value after set flag: 1
Packets left 20
new src: 0
new dest: 33
Packets left 19
new src: 0
new dest: 33
Packets left 18
new src: 0
new dest: 33
Packets left 17
new src: 0
new dest: 33
Packets left 16
new src: 0
new dest: 33
Packets left 15
new src: 0
new dest: 33
Packets left 14
new src: 0
new dest: 33
Packets left 13
new src: 0
new dest: 33
router flag value after set flag: 1
Packets left 12
The total packet is 12
new src: 42
new dest: 0
Packets left 12
new src: 42
new dest: 0
Packets left 12
new src: 42
new dest: 0
Packets left 12
new src: 42
new dest: 0
Packets left 12
new src: 42
new dest: 0
Packets left 12
new src: 42
new dest: 0
Packets left 12
new src: 42
new dest: 0
Packets left 12
new src: 42
new dest: 0
router flag value after set flag: 1
Packets left 12
new src: 0
new dest: 33
Packets left 11
new src: 0
new dest: 33
Packets left 10
new src: 0
new dest: 33
Packets left 9
new src: 0
new dest: 33
Packets left 8
new src: 0
new dest: 33
Packets left 7
new src: 0
new dest: 33
Packets left 6
new src: 0
new dest: 33
Packets left 5
new src: 0
new dest: 33
router flag value after set flag: 1
Packets left 4
The total packet is 4
new src: 42
new dest: 0
Packets left 4
new src: 42
new dest: 0
Packets left 4
new src: 42
new dest: 0
Packets left 4
new src: 42
new dest: 0
Packets left 4
new src: 42
new dest: 0
Packets left 4
new src: 42
new dest: 0
Packets left 4
new src: 42
new dest: 0
router flag value after set flag: 1
Packets left 4
new src: 0
new dest: 33
Packets left 3
new src: 0
new dest: 33
Packets left 2
new src: 0
new dest: 33
Packets left 1
new src: 0
new dest: 33
Packets left 0
0