

Assignment 3

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Comparison

Input

8

1 2 3 4 5 6 7 8

2 3 4 1 5 8 7 6

1 3 5 7 2 4 6 8

1 2 5 7 8 3 4 6

3 5 7 8 1 2 4 6

1 2 3 4 5 6 7 8

2 4 6 8 1 3 5 7

8 6 7 1 2 3 5 4

PIM

It took 10 rounds for PIM to finish assigning the ports for incoming packets.

iSLIP

It took 8 rounds for iSLIP to finish assigning the ports for incoming packets.

Iterations

Round	PIM	iSLIP
1	3	9
2	2	4
3	2	4
4	3	2
5	1	4
6	2	2
7	2	2
8	1	1
9	1	
10	1	

Outputs

iSLIP	PIM
Round 1 Iter 1 1 -> 1	Round 1 Iter 1 8 -> 6
Round 1 Iter 2 2 -> 2	2 -> 1 3 -> 8
Round 1 Iter 3 3 -> 3	7 -> 7
Round 1 Iter 4 4 -> 4	Round 1 Iter 2 4 -> 4
Round 1 Iter 5 5 -> 5	6 -> 2
Round 1 Iter 6 6 -> 6	Round 1 Iter 3 5 -> 5
Round 1 Iter 7 7 -> 7	Round 1 Iter 4 1 -> 3
Round 1 Iter 8 8 -> 8	Round 1 Iter 5 Round 2 Iter 1
Round 1 Iter 9 Round 2 Iter 1 1 -> 2	1 -> 8 3 -> 2
2 -> 1	4 -> 1 5 -> 4
Round 2 Iter 2 3 -> 4	6 -> 7 7 -> 5
4 -> 3	Round 2 Iter 2 8 -> 3
Round 2 Iter 3 5 -> 6	2 -> 6
6 -> 5	Round 2 Iter 3 Round 3 Iter 1
Round 2 Iter 4 8 -> 7	8 -> 4 1 -> 2
7 -> 8	3 -> 5 5 -> 8
Round 2 Iter 5 Round 3 Iter 1 1 -> 3	6 -> 1
3 -> 1	Round 3 Iter 2 4 -> 6
Round 3 Iter 2 2 -> 4	7 -> 3
4 -> 2	Round 3 Iter 3 2 -> 7
Round 3 Iter 3 5 -> 7	Round 3 Iter 4 Round 4 Iter 1
7 -> 5	8 -> 1 2 -> 8
Round 3 Iter 4 8 -> 6	3 -> 3 5 -> 2
6 -> 8	7 -> 4
Round 3 Iter 5	Round 4 Iter 2

Round 4 Iter 1	4 -> 7
1 -> 4	6 -> 6
2 -> 3	Round 4 Iter 3
3 -> 2	1 -> 5
4 -> 1	Round 4 Iter 4
Round 4 Iter 2	Round 5 Iter 1
8 -> 5	2 -> 4
5 -> 8	3 -> 7
6 -> 7	4 -> 3
7 -> 6	5 -> 1
Round 4 Iter 3	6 -> 8
Round 5 Iter 1	7 -> 6
1 -> 5	8 -> 2
5 -> 1	Round 5 Iter 2
Round 5 Iter 2	Round 6 Iter 1
2 -> 6	1 -> 7
6 -> 2	3 -> 4
Round 5 Iter 3	4 -> 5
3 -> 7	5 -> 3
7 -> 3	7 -> 8
Round 5 Iter 4	Round 6 Iter 2
8 -> 4	2 -> 2
4 -> 8	Round 6 Iter 3
Round 5 Iter 5	Round 7 Iter 1
Round 6 Iter 1	1 -> 1
1 -> 6	2 -> 3
2 -> 5	3 -> 6
5 -> 2	4 -> 8
6 -> 1	6 -> 4
Round 6 Iter 2	7 -> 2
8 -> 3	8 -> 7
3 -> 8	Round 7 Iter 2
4 -> 7	Round 8 Iter 1
7 -> 4	1 -> 4
Round 6 Iter 3	3 -> 1
Round 7 Iter 1	4 -> 2
1 -> 7	5 -> 7
3 -> 5	6 -> 3
5 -> 3	8 -> 8
7 -> 1	Round 8 Iter 2
Round 7 Iter 2	2 -> 5
8 -> 2	Round 8 Iter 3
2 -> 8	Round 9 Iter 1
4 -> 6	8 -> 5
6 -> 4	5 -> 6
Round 7 Iter 3	7 -> 1
Round 8 Iter 1	Round 9 Iter 2

1 -> 8 2 -> 7 3 -> 6 4 -> 5 5 -> 4 6 -> 3 7 -> 2 8 -> 1	Round 10 Iter 1 1 -> 6 6 -> 5
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4
1 2 3 4
2
3
4

PIM

It took 4 rounds for PIM to finish assigning the ports for incoming packets.

iSLIP

It took 4 rounds for iSLIP to finish assigning the ports for incoming packets.

Iterations

Round	PIM	iSLIP
1	2	2
2	1	1
3	1	1
4	1	1

Outputs

iSLIP	PIM
Round 1 Iter 1 1 -> 1 Round 1 Iter 2 2 -> 2 3 -> 3 4 -> 4 Round 1 Iter 3 Round 2 Iter 1 1 -> 2 Round 2 Iter 2 Round 3 Iter 1	Round 1 Iter 1 1 -> 1 2 -> 2 3 -> 3 4 -> 4 Round 1 Iter 2 Round 2 Iter 1 1 -> 4 Round 2 Iter 2 Round 3 Iter 1 1 -> 3

1 -> 3 Round 3 Iter 2 Round 4 Iter 1 1 -> 4	Round 3 Iter 2 Round 4 Iter 1 1 -> 2
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8
1 2 3 4 5 6 7 8
3
3
5
5
7
7
-

PIM

It took 8 rounds for PIM to finish assigning the ports for incoming packets.

iSLIP

It took 8 rounds for iSLIP to finish assigning the ports for incoming packets.

Iterations

Round	PIM	iSLIP
1	1	2
2	2	2
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1

Outputs

iSLIP	PIM
Round 1 Iter 1	Round 1 Iter 1

1 -> 1 Round 1 Iter 2 2 -> 3 4 -> 5 6 -> 7 Round 1 Iter 3 Round 2 Iter 1 1 -> 2 Round 2 Iter 2 3 -> 3 5 -> 5 7 -> 7 Round 2 Iter 3 Round 3 Iter 1 1 -> 3 Round 3 Iter 2 Round 4 Iter 1 1 -> 4 Round 4 Iter 2 Round 5 Iter 1 1 -> 5 Round 5 Iter 2 Round 6 Iter 1 1 -> 6 Round 6 Iter 2 Round 7 Iter 1 1 -> 7 Round 7 Iter 2 Round 8 Iter 1 1 -> 8	1 -> 2 3 -> 3 4 -> 5 6 -> 7 Round 1 Iter 2 Round 2 Iter 1 1 -> 4 7 -> 7 Round 2 Iter 2 2 -> 3 5 -> 5 Round 2 Iter 3 Round 3 Iter 1 1 -> 8 Round 3 Iter 2 Round 4 Iter 1 1 -> 3 Round 4 Iter 2 Round 5 Iter 1 1 -> 7 Round 5 Iter 2 Round 6 Iter 1 1 -> 5 Round 6 Iter 2 Round 7 Iter 1 1 -> 1 Round 7 Iter 2 Round 8 Iter 1 1 -> 6
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