9

1 2

2 3

3 1

3 4

3 7

4 6

6 5

5 4

7 8

8 9

9 7

exit

2

6

1 2

2 3

3 1

3 4

4 6

6 5

5 4

exit

2

INFINITE : Only one connected component

5

1 2

2 3

3 1

2 4

4 5

5 1

exit

1

5

1 2

2 3

5 2

4 5

exit

4

Check

6

1 3

2 1

2 4

3 4

3 5

4 5

5 6

exit

6

7

1 2

2 3

4 5

5 6

6 7

exit

4

9

1 2

2 3

3 1

2 4

3 7

4 6

6 5

5 4

7 8

8 9

9 7

exit

2

6

1 2

1 3

2 3

2 5

3 4

4 5

5 6

exit

6

7

1 2

2 3

2 5

4 5

5 6

6 7

exit

5