

Input PD code or string to snappy (use to reproduce the drawing):

[(1, 7, 2, 6), (4, 9, 5, 10), (2, 12, 3, 11), (7, 13, 8, 12), (18, 13, 1, 14), (3, 17, 4, 16), (5, 14, 6, 15), (8, 18, 9, 17), (10, 15, 11, 16)]

Optimal pinning sets:

A) ● {10, 9, 6, 2}

B) ● {8, 1, 3, 4}

Minimal pinning sets:

a) ● {10, 8, 6, 11, 2, 7}

b) ● {8, 6, 5, 11, 2, 9}

c) ● {10, 8, 5, 9, 2, 7}

d) ● {8, 11, 5, 4, 2, 1}

e) ● {10, 6, 3, 9, 4, 1}

f) ● {8, 11, 3, 4, 2, 7}

g) ● {8, 3, 5, 2, 1, 7}

h) ● {8, 6, 11, 4, 2}

i) ● {8, 11, 5, 2, 7}

j) ● {8, 9, 5, 2, 1}

k) ● {10, 8, 3, 2, 7}

Number of minimal pinning sets: 13

Number of total pinning sets: 395

Pinning number: 4

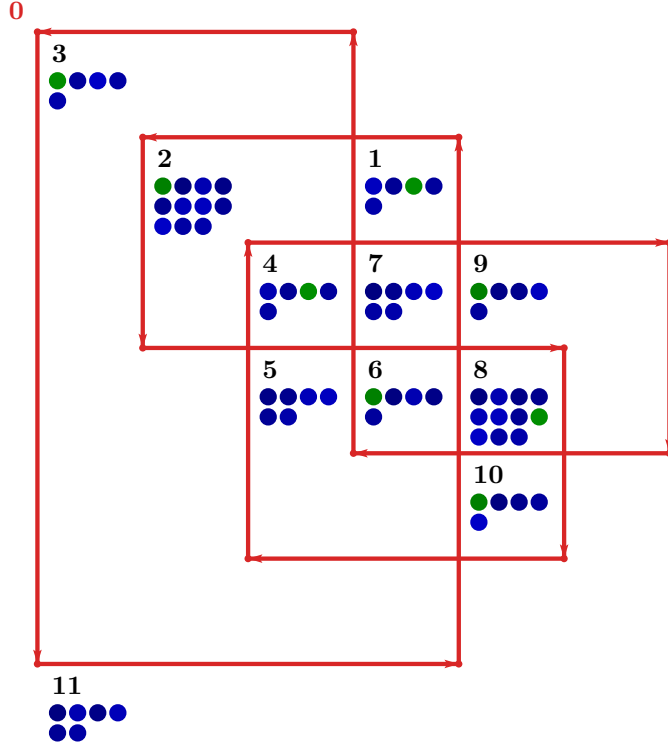


Figure 1: Snappy loop plot.

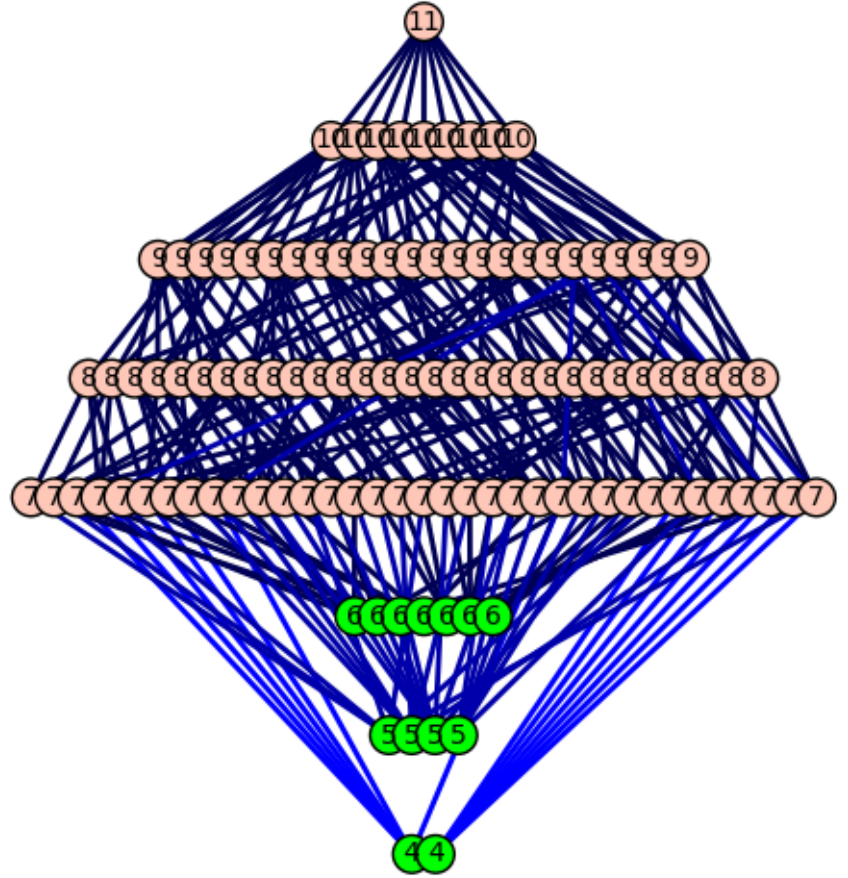


Figure 2: Minimal join semilattice of pinning sets.

Input PD code or string to snappy (use to reproduce the drawing):
8_3
Optimal pinning sets:

0

A) ● {9, 7, 6, 1, 3, 2}

Number of minimal pinning sets: 1
Number of total pinning sets: 16
Pinning number: 6

10

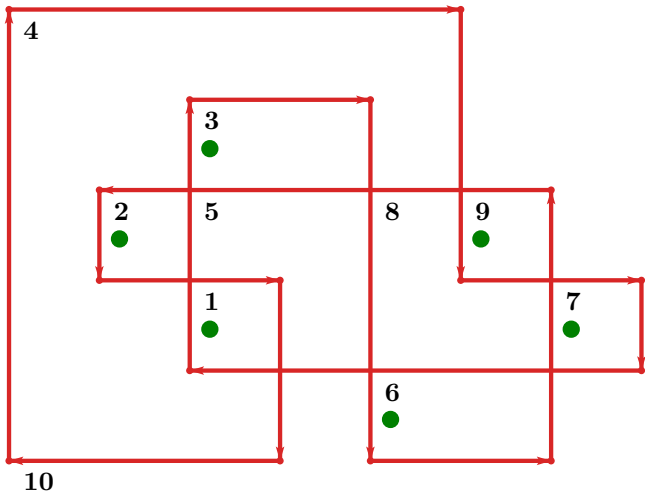


Figure 3: Snappy loop plot.

6

Figure 4: Minimal join semilattice of pinning sets.

Input PD code or string to snappy (use to reproduce the drawing):

3_1

Optimal pinning sets:

0

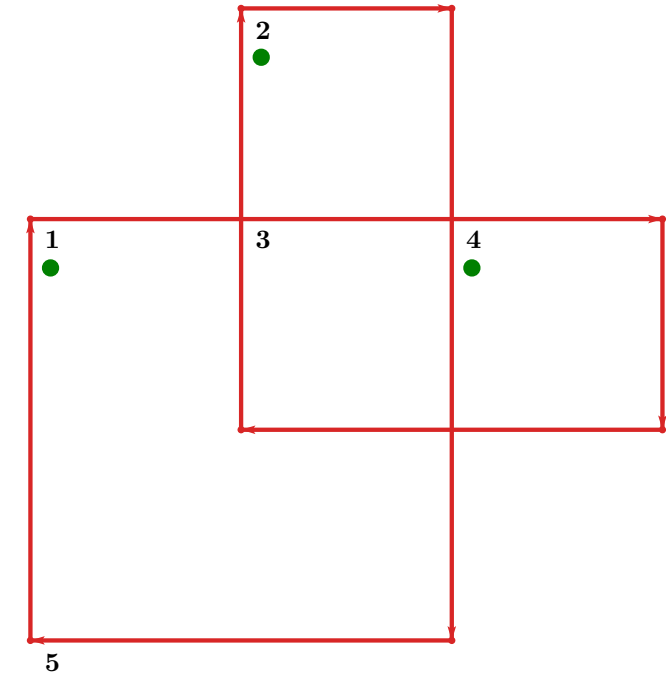


Figure 5: Snappy loop plot.

A) \bullet {4, 1, 2}

Number of minimal pinning sets: 1

Number of total pinning sets: 4

Pinning number: 3



Figure 6: Minimal join semilattice of pinning sets.

Input PD code or string to snappy (use to reproduce the drawing):

[(1, 7, 2, 6), (3, 8, 4, 9), (5, 11, 6, 10), (16, 12, 1, 11), (2, 13, 3, 14), (4, 16, 5, 15), (7, 12, 8, 13), (9, 15, 10, 14)]

Optimal pinning sets:

- A) ● {9, 7, 1, 3, 5}
- B) ● {8, 10, 1, 3, 5}
- C) ● {8, 7, 1, 3, 4}
- D) ● {9, 7, 1, 3, 4}
- E) ● {9, 8, 2, 4, 5}

F) ● {9, 7, 2, 6, 4}

G) ● {9, 8, 2, 3, 5}

H) ● {9, 7, 2, 3, 5}

I) ● {8, 7, 2, 1, 4}

J) ● {8, 2, 1, 4, 5}

Number of minimal pinning sets: 10

Number of total pinning sets: 160

Pinning number: 5

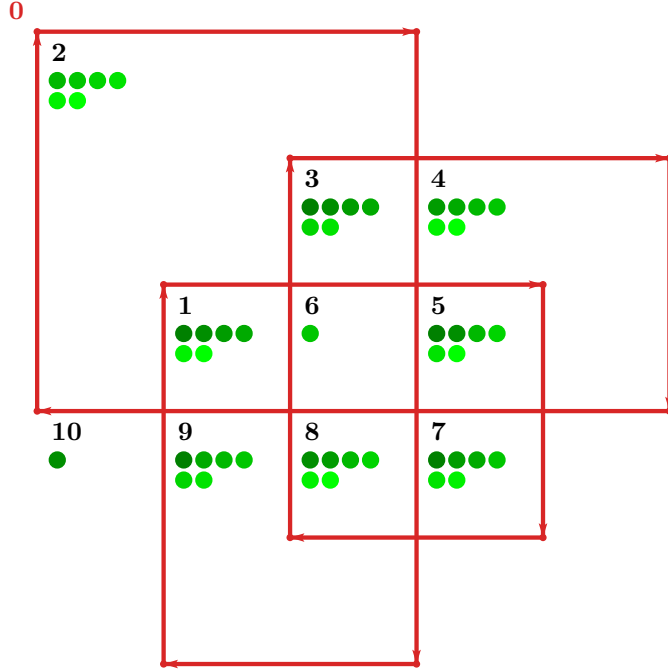


Figure 7: Snappy loop plot.

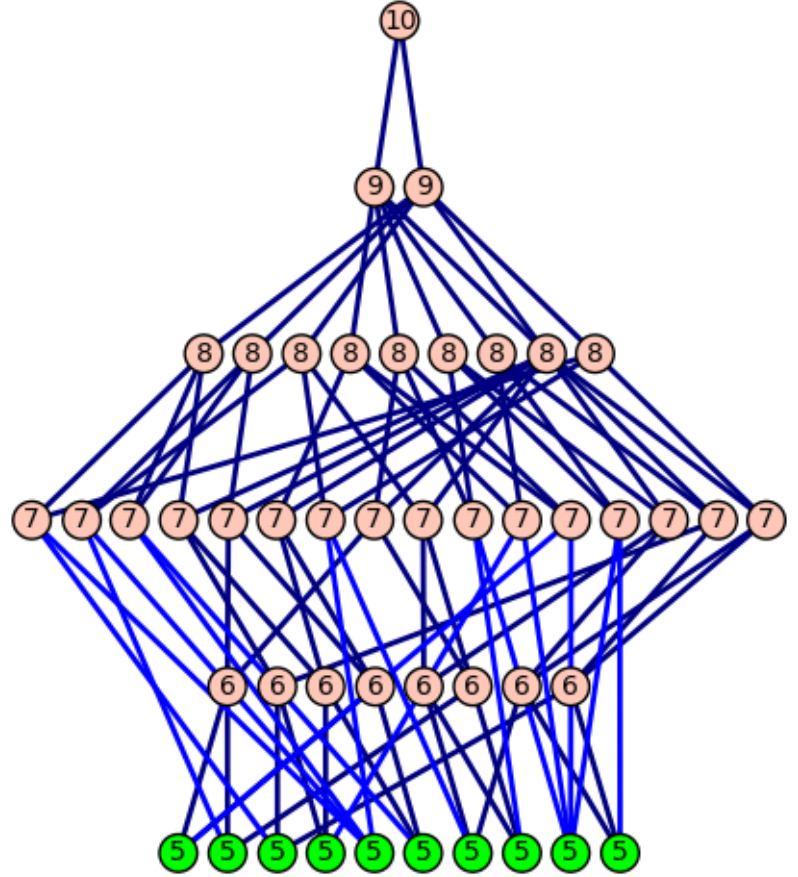


Figure 8: Minimal join semilattice of pinning sets.

Input PD code or string to snappy (use to reproduce the drawing):

[(24, 6, 1, 5), (3, 10, 4, 11), (1, 13, 2, 12), (6, 14, 7, 13), (2, 17, 3, 18), (8, 15, 9, 16), (11, 19, 12, 18), (4, 20, 5, 19), (7, 23, 8, 22), (9, 20, 10, 21), (14, 24, 15, 23), (16, 21, 17, 22)]

Optimal pinning sets:

- A) ● {8, 4, 13, 9, 2}
- B) ● {7, 6, 1, 11, 3}
- C) ● {6, 8, 1, 9, 2}
- D) ● {7, 6, 1, 9, 2}

Minimal pinning sets:

- a) ● {7, 6, 4, 13, 2, 9}
- b) ● {7, 8, 4, 13, 2, 11}
- c) ● {7, 6, 4, 13, 2, 11}
- d) ● {6, 8, 5, 13, 2, 9}
- e) ● {7, 6, 5, 13, 2, 9}
- f) ● {7, 6, 5, 13, 2, 11}

- g) ● {7, 8, 1, 4, 3, 11}
- h) ● {8, 4, 1, 11, 3, 9}
- i) ● {6, 8, 1, 11, 3, 9}
- j) ● {8, 4, 1, 9, 3, 12}
- k) ● {6, 8, 1, 9, 3, 12}
- l) ● {7, 6, 1, 9, 3, 12}
- m) ● {14, 8, 1, 4, 2, 9}
- n) ● {7, 8, 1, 4, 2, 11}
- o) ● {7, 6, 1, 4, 2, 11}
- p) ● {8, 4, 1, 11, 2, 9}
- q) ● {7, 6, 1, 11, 2, 10}
- r) ● {8, 4, 1, 9, 2, 12}
- s) ● {7, 6, 1, 5, 2, 11}

Number of minimal pinning sets: 23

Number of total pinning sets: 2400

Pinning number: 5

0

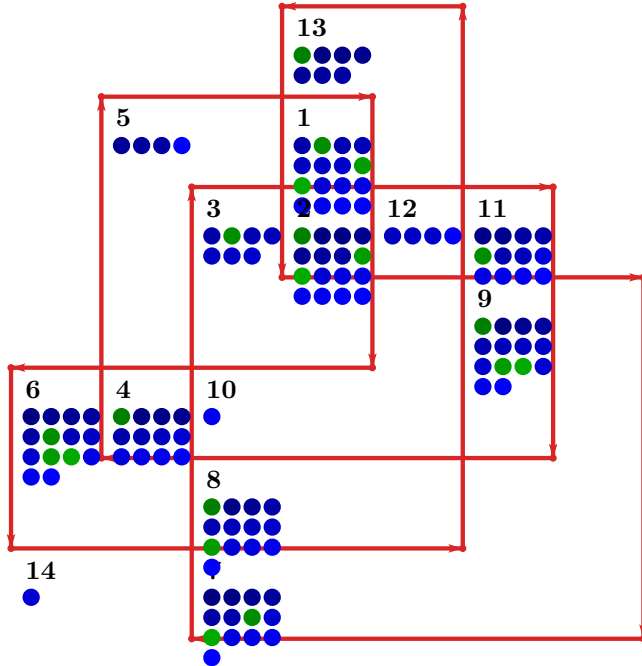


Figure 9: Snappy loop plot.

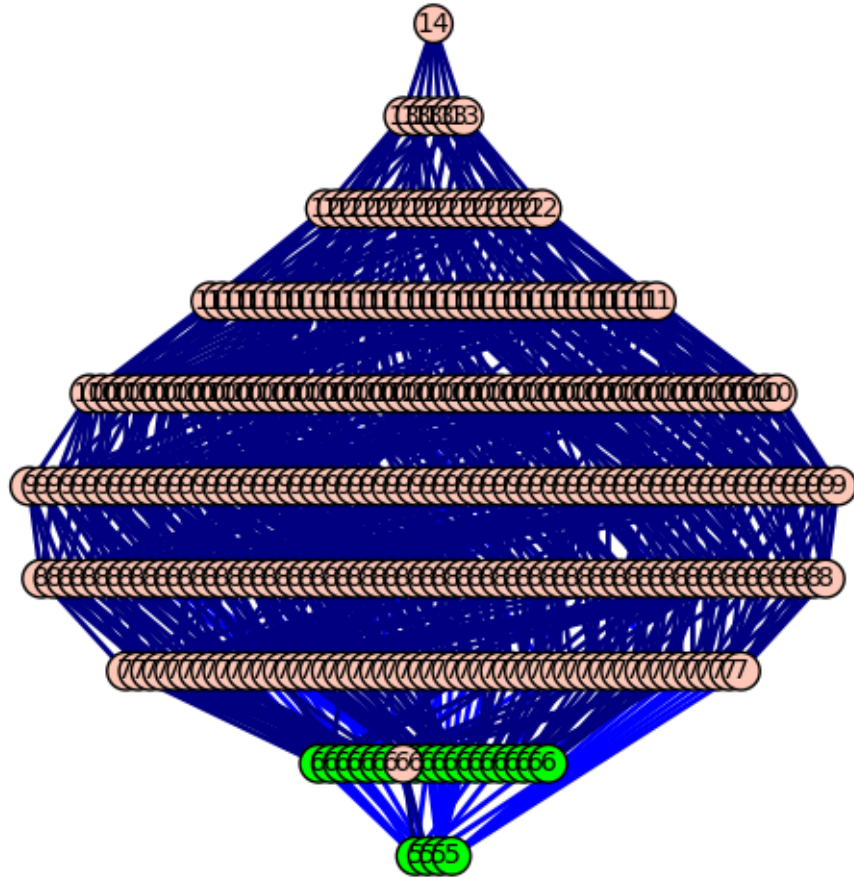


Figure 10: Minimal join semilattice of pinning sets.

Input PD code or string to snappy (use to reproduce the drawing):

4_1
Optimal pinning sets:

A) ● {5, 2, 4, 1}

0

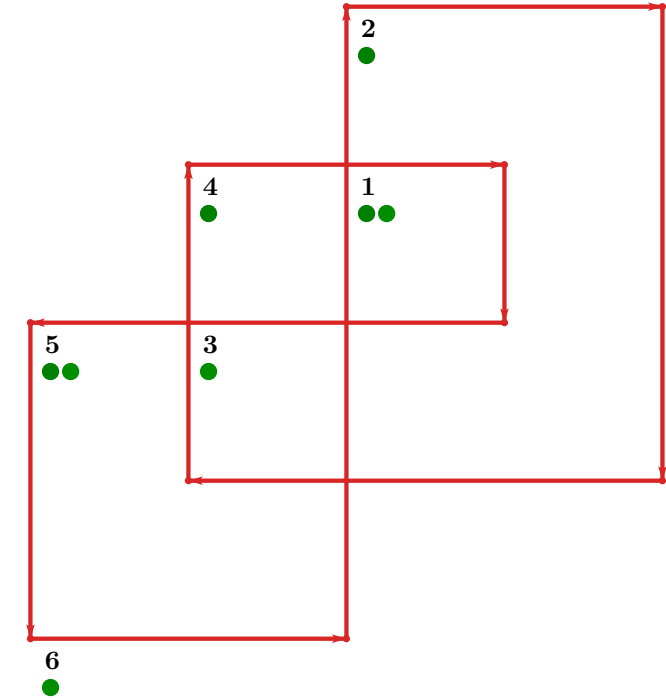


Figure 11: Snappy loop plot.

B) ● {5, 3, 6, 1}

Number of minimal pinning sets: 2
Number of total pinning sets: 7
Pinning number: 4

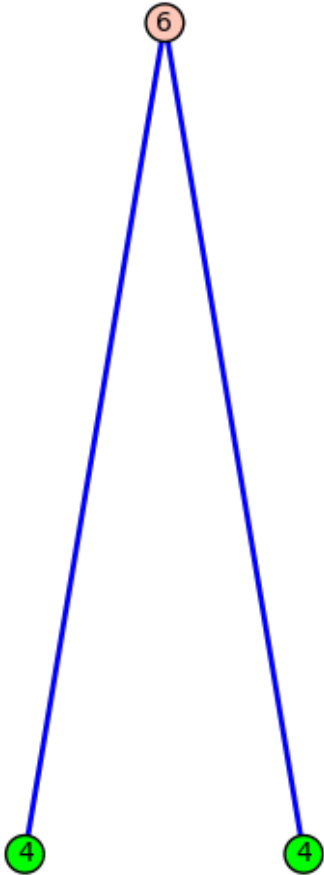


Figure 12: Minimal join semilattice of pinning sets.

Input PD code or string to snappy (use to reproduce the drawing):

5_1

Optimal pinning sets:

0

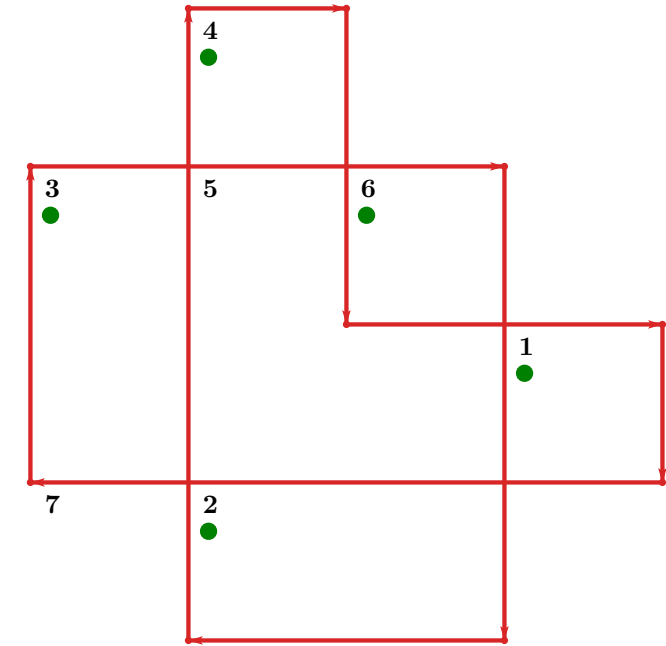



Figure 13: Snappy loop plot.

A)  {6, 4, 1, 2, 3}

Number of minimal pinning sets: 1

Number of total pinning sets: 4

Pinning number: 5



Figure 14: Minimal join semilattice of pinning sets.

Input PD code or string to snappy (use to reproduce the drawing):

9_24
Optimal pinning sets:

A) ● {10, 3, 5, 8, 1}

0

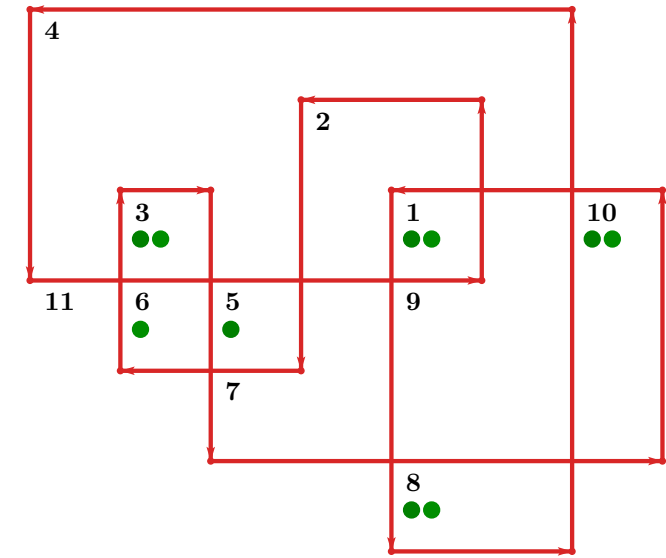


Figure 15: Snappy loop plot.

B) ● {10, 3, 6, 8, 1}

Number of minimal pinning sets: 2
Number of total pinning sets: 96
Pinning number: 5

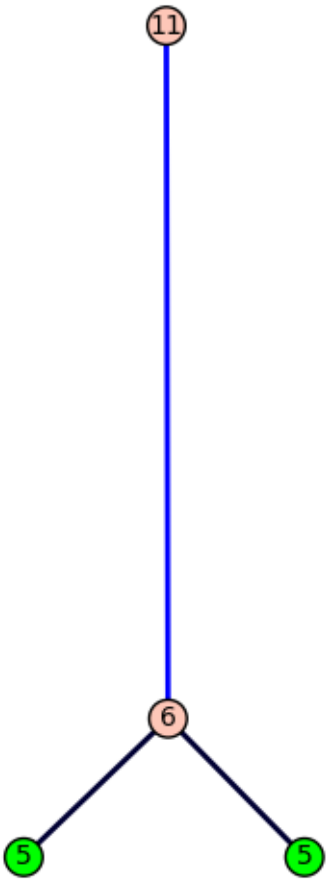


Figure 16: Minimal join semilattice of pinning sets.