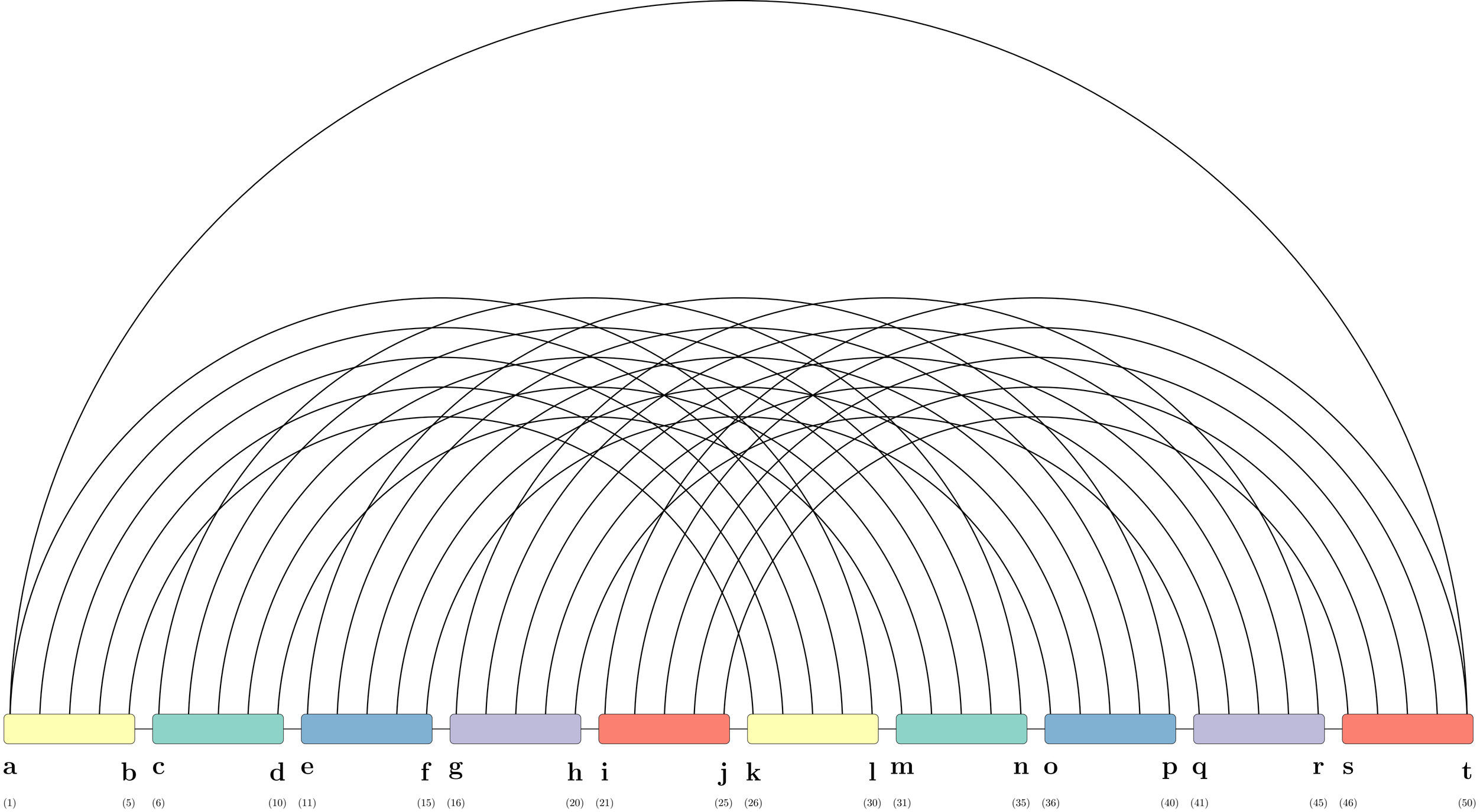
a
b
c
d
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g
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i
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l
m
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t
(1)
(5)
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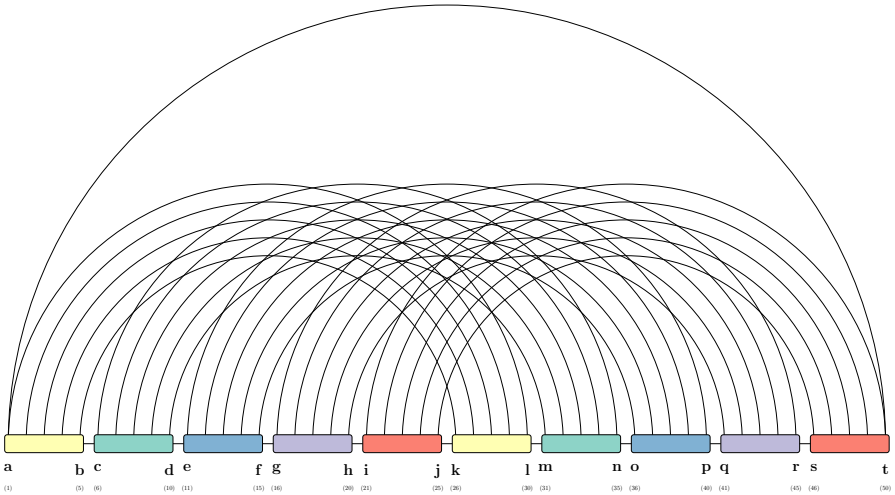
(41)
(45)
(46)
(50)

fatgraph name: K5



first and last anchors, already given: a, t

$$A = \min_{i,j,r} \left(B[r, j, a, i] + K[t, r, j, i] \right)$$

$$B\left[a, i, j, r\right] = \min_{h} \left(C[h, r, j, a] \right)$$

$$C\left[a, h, j, r\right] = \min_{g,q} \Big(D[q, j, g, a] + C_{\boxtimes}\left[g, h, q, r\right] \Big)$$

$$D\left[a, g, j, q\right] = \min_{c,l} \Big(E[c, g, q, l] + J\left[a, l \mid c, j\right] \Big)$$

$$E\left[c, g, l, q\right] = \min_{d,n} \left(F[c, n, d, l] + G[n, d, g, q] \right)$$

$$F\left[c, d, l, n\right] = \min_{m} \Big(C_{\boxtimes}\left[c, d, m, n\right] \Big)$$

$$G\left[d, g, n, q\right] = \min_{p} \left(H[n, d, g, p] \right)$$

$$H\left[d, g, n, p\right] = \min_{e} \Big(I\left[p, e \mid n, g\right] \Big)$$

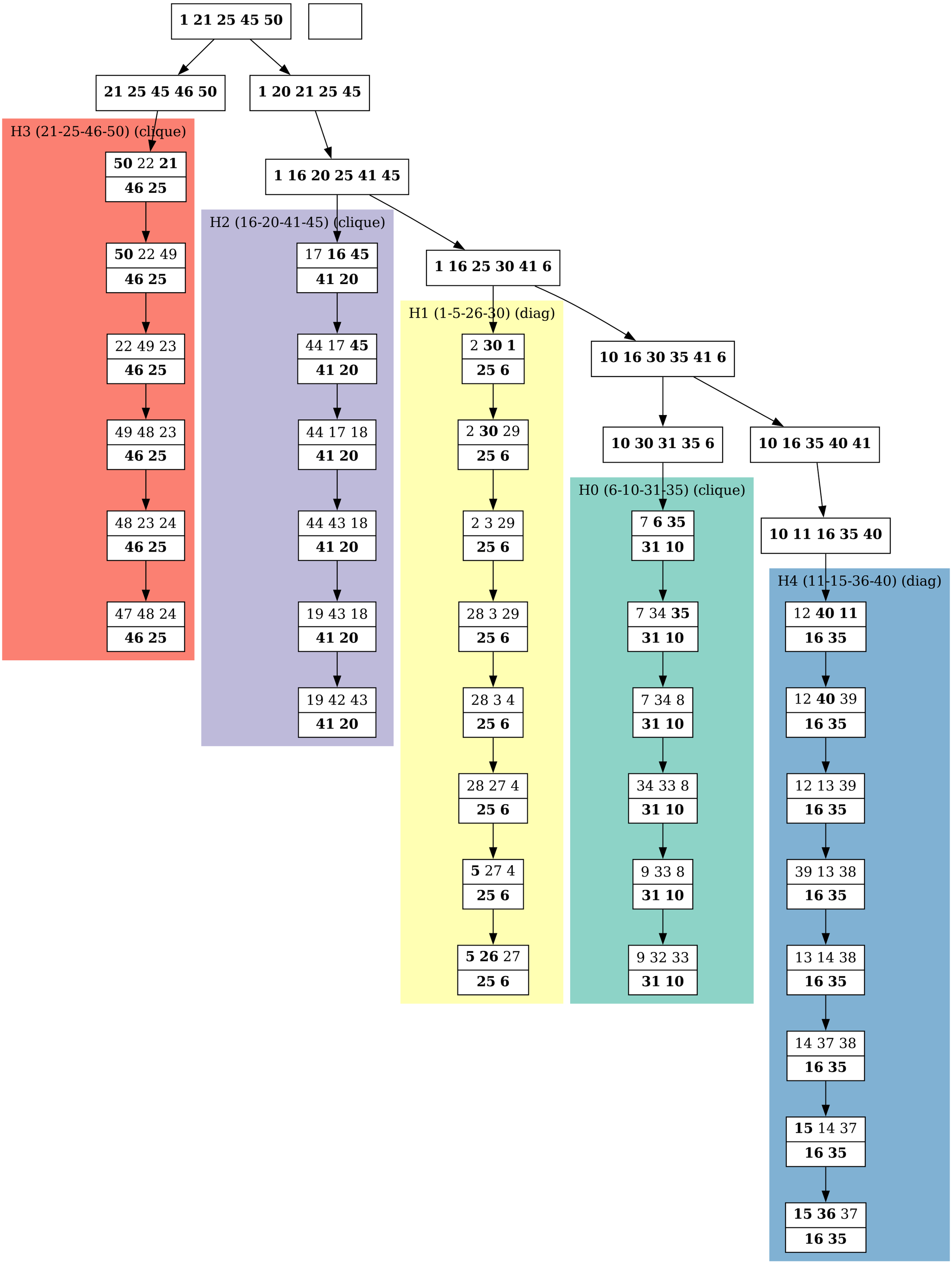
$$I'\left[p, e \mid n, g\right] = \min \begin{cases} I'[p, e-1 \mid n, g], & \text{if } e-1, \notin \{p, n, g\} \\ I[p+1, e-1 \mid n, g] + \Delta G(p, e) & \text{if } \{p+1, e-1\} \cap \{n, g\} = \emptyset \end{cases}$$

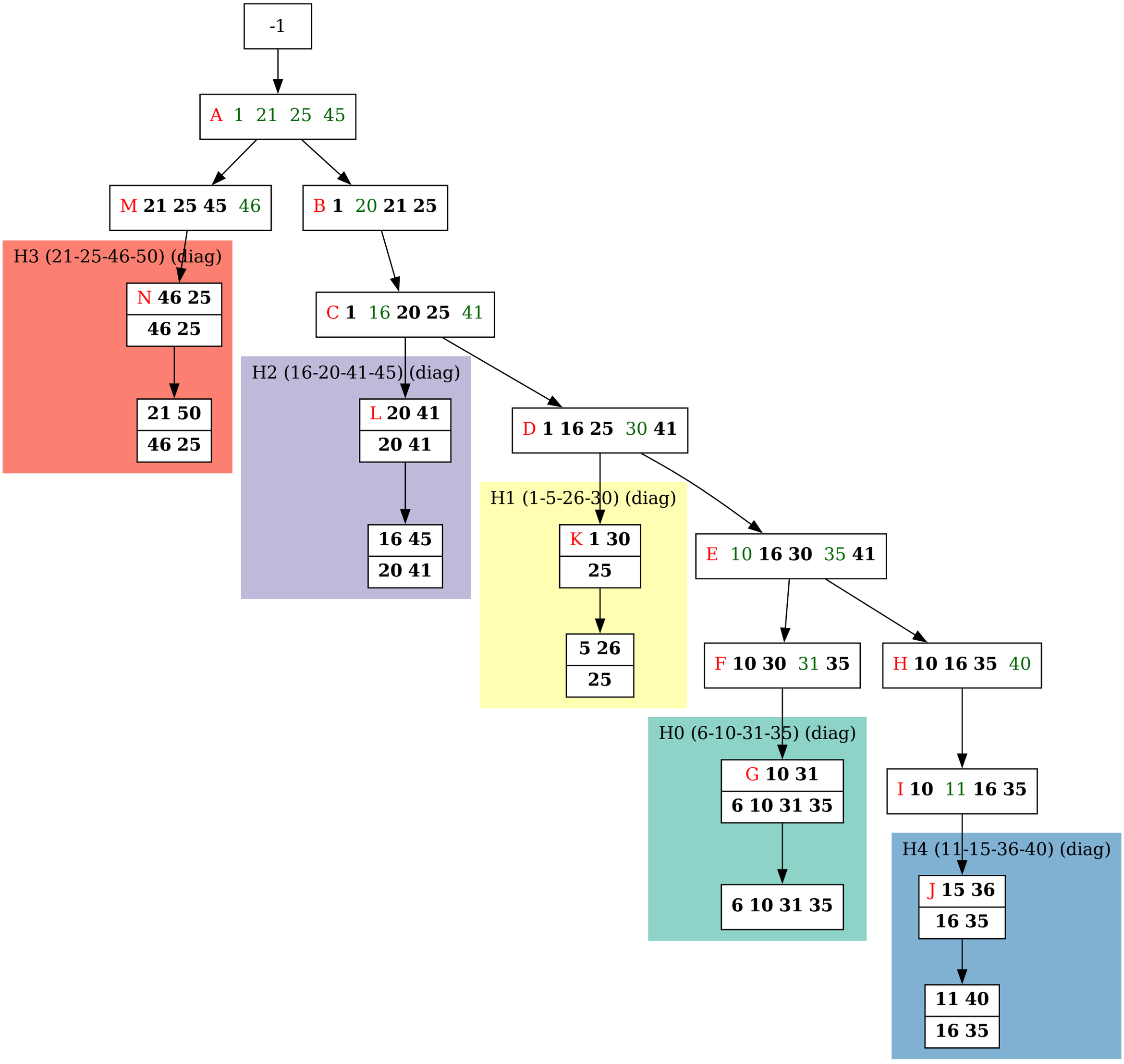
$$I\left[p, e \mid n, g\right] = \min \begin{cases} I[p+1, e \mid n, g], & \text{if } p+1 \notin \{e, n, g\} \\ I'[p, e-1 \mid n, g], & \text{if } e-1, \notin \{p, n, g\} \\ I[p+1, e-1 \mid n, g] + \Delta G(p, e) & \text{if } \{p+1, e-1\} \cap \{n, g\} = \emptyset \end{cases}$$

$$J'[a, l \mid c, j] = \min \begin{cases} J'[a, l-1 \mid c, j], & \text{if } l-1, \notin \{a, c, j\} \\ J[a+1, l-1 \mid c, j] + \Delta G(a, l) & \text{if } \{a+1, l-1\} \cap \{c, j\} = \emptyset \end{cases}$$

$$J[a, l \mid c, j] = \min \begin{cases} J[a+1, l \mid c, j], & \text{if } a+1 \notin \{l, c, j\} \\ J'[a, l-1 \mid c, j], & \text{if } l-1, \notin \{a, c, j\} \\ J[a+1, l-1 \mid c, j] + \Delta G(a, l) & \text{if } \{a+1, l-1\} \cap \{c, j\} = \emptyset \end{cases}$$

$$K[i, j, r, t] = \min_s \left(C_{\boxtimes}[i, j, s, t] \right)$$


1 21 25 45 50
21 25 45 46 50
1 20 21 25 45
H3 (21-25-46-50) (clique)
50 22 21
46 25
50 22 49
46 25
22 49 23
46 25
49 48 23
46 25
48 23 24
46 25
47 48 24
46 25
1 16 20 25 41 45
H2 (16-20-41-45) (clique)
17 16 45
41 20
44 17 45
41 20
44 17 18
41 20
44 43 18
41 20
19 43 18
41 20
19 42 43
41 20
1 16 25 30 41 6
H1 (1-5-26-30) (diag)
2 30 1
25 6
2 30 29
25 6
2 3 29
25 6
28 3 29
25 6
28 3 4
25 6
28 27 4
25 6
5 27 4
25 6
5 26 27
25 6
10 16 30 35 41 6
10 30 31 35 6
H0 (6-10-31-35) (clique)
7 6 35
31 10
7 34 35
31 10
7 34 8
31 10
34 33 8
31 10
9 33 8
31 10
9 32 33
31 10
10 16 35 40 41
10 11 16 35 40
H4 (11-15-36-40) (diag)
12 40 11
16 35
12 40 39
16 35
12 13 39
16 35
39 13 38
16 35
13 14 38
16 35
14 37 38
16 35
15 14 37
16 35
15 36 37
16 35


-1
A 1 21 25 45
M 21 25 45 46
B 1 20 21 25
H3 (21-25-46-50) (diag)
N 46 25
46 25
21 50
46 25
C 1 16 20 25 41
H2 (16-20-41-45) (diag)
L 20 41
20 41
16 45
20 41
D 1 16 25 30 41
H1 (1-5-26-30) (diag)
K 1 30
25
5 26
25
E 10 16 30 35 41
F 10 30 31 35
H 10 16 35 40
H0 (6-10-31-35) (diag)
G 10 31
6 10 31 35
6 10 31 35
I 10 11 16 35
H4 (11-15-36-40) (diag)
J 15 36
16 35
11 40
16 35