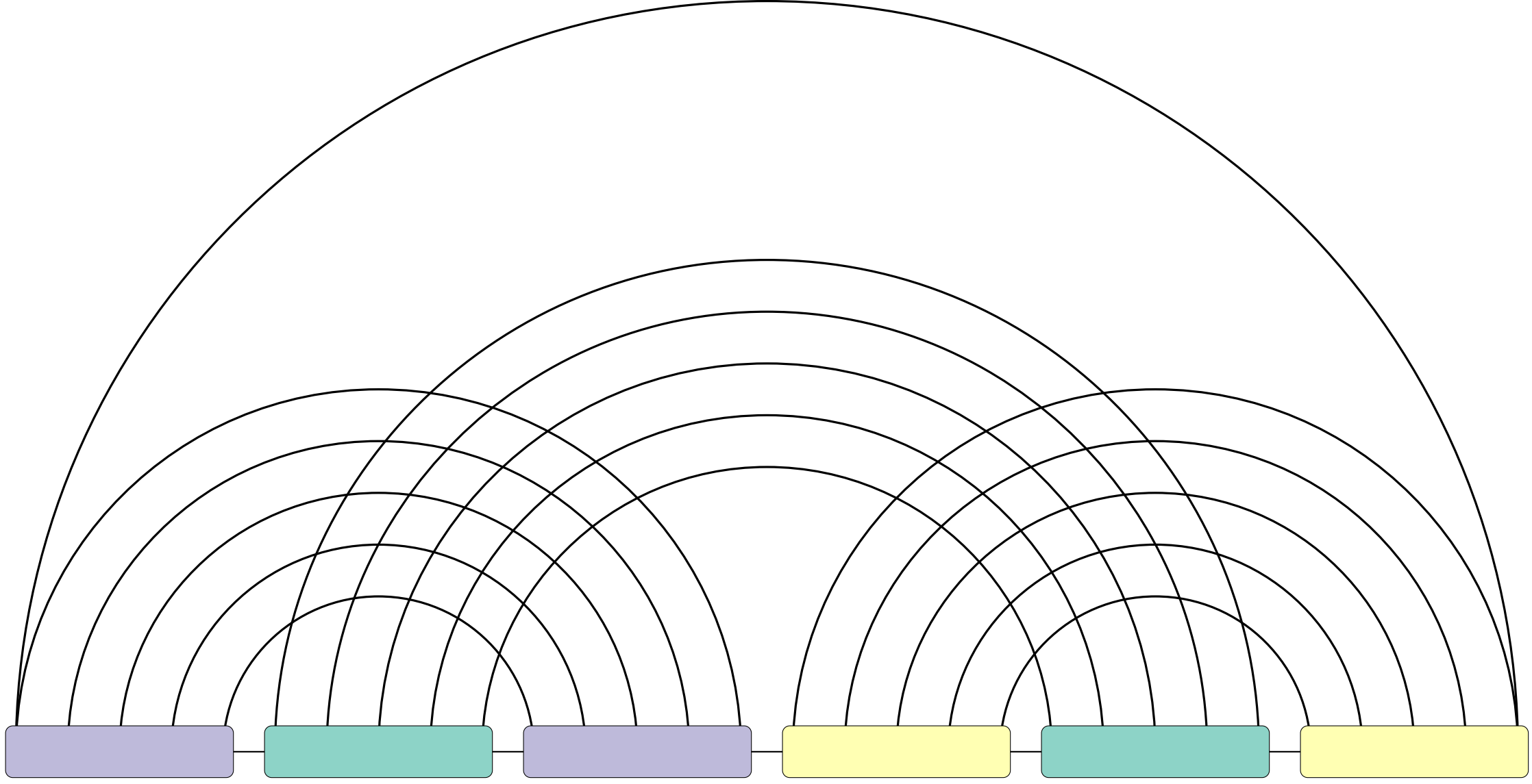
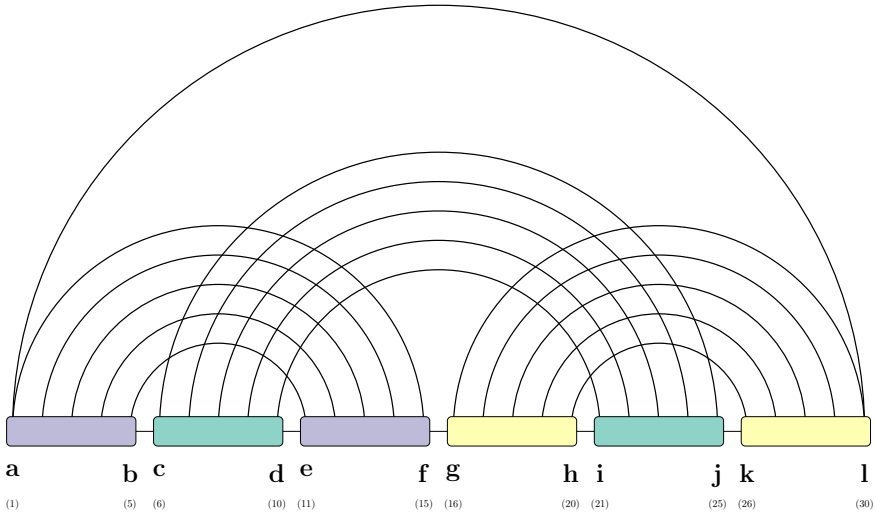

a
b
c
d
e
f
g
h
i
j
k
l
(1)
(5)
(6)
(10)
(11)
(15)
(16)
(20)
(21)
(25)
(26)
(30)

**fatgraph name: K**




first and last anchors, already given: $a, l$

$$A\,[a,l] = \min_{f,h,k} \left(B[h,f,a,k] + G[l,f,h,k]\right)$$

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

$$C\,[a,f,i,k] = \min_{j} \Big(D\,[f,a \mid i,j]\Big)$$

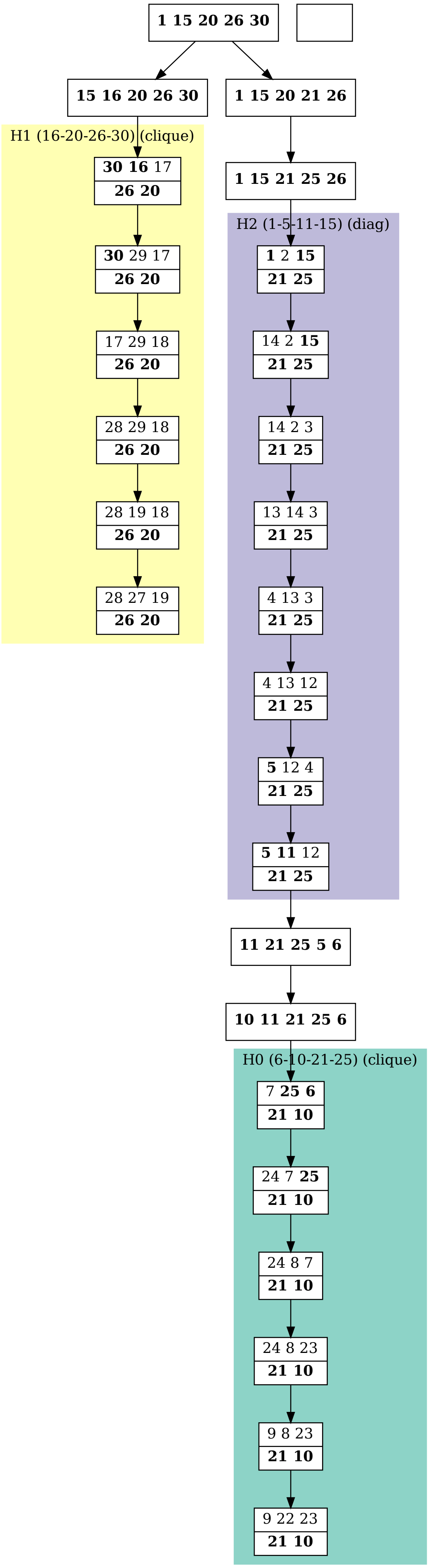
$$D'\,[f,a \mid i,j] = \min \begin{cases} D'\,[f,a-1 \mid i,j], & \text{if } a-1, \notin \{f,i,j\} \\ D\,[f+1,a-1 \mid i,j] + \Delta G(f,a) & \text{if } \{f+1,a-1\} \cap \{i,j\} = \emptyset \end{cases}$$

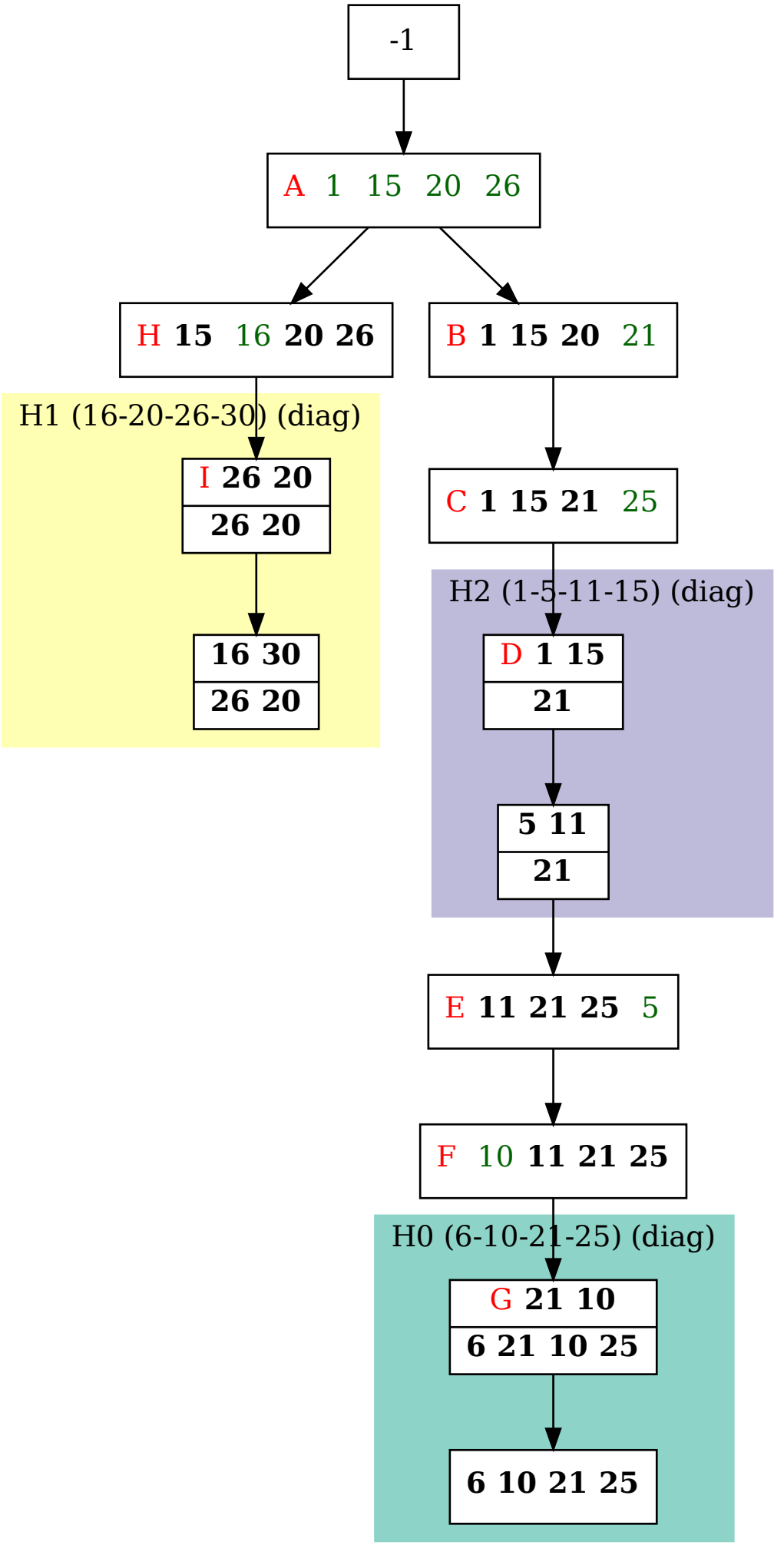
$$D\,[f,a \mid i,j] = \min \begin{cases} D\,[f+1,a \mid i,j], & \text{if } f+1 \notin \{a,i,j\} \\ D'\,[f,a-1 \mid i,j], & \text{if } a-1, \notin \{f,i,j\} \\ D\,[f+1,a-1 \mid i,j] + \Delta G(f,a) & \text{if } \{f+1,a-1\} \cap \{i,j\} = \emptyset, \\ E[i,f,j,a] \end{cases}$$

$$E\,[b,e,i,j] = \min_{c} \left(F[i,e,j,c]\right)$$

$$F\,[c,e,i,j] = \min_{d} \Big(C_{\boxtimes}\,[c,d,i,j]\Big)$$

$$G\,[f,h,k,l] = \min_{g} \Big(C_{\boxtimes}\,[g,h,k,l]\Big)$$


1 15 20 26 30
15 16 20 26 30
1 15 20 21 26
H1 (16-20-26-30) (clique)
30 16 17
26 20
1 15 21 25 26
H2 (1-5-11-15) (diag)
1 2 15
21 25
30 29 17
26 20
14 2 15
21 25
17 29 18
26 20
14 2 3
21 25
28 29 18
26 20
13 14 3
21 25
28 19 18
26 20
4 13 3
21 25
28 27 19
26 20
4 13 12
21 25
5 12 4
21 25
5 11 12
21 25
11 21 25 5 6
10 11 21 25 6
H0 (6-10-21-25) (clique)
7 25 6
21 10
24 7 25
21 10
24 8 7
21 10
24 8 23
21 10
9 8 23
21 10
9 22 23
21 10


-1
A 1 15 20 26
H 15 16 20 26
B 1 15 20 21
H1 (16-20-26-30) (diag)
I 26 20
26 20
16 30
26 20
C 1 15 21 25
H2 (1-5-11-15) (diag)
D 1 15
21
5 11
21
E 11 21 25 5
F 10 11 21 25
H0 (6-10-21-25) (diag)
G 21 10
6 21 10 25
6 10 21 25