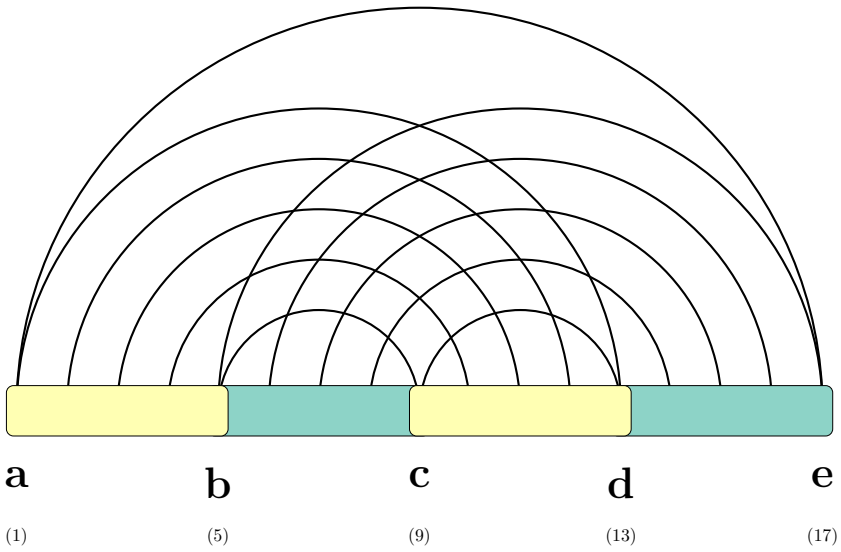
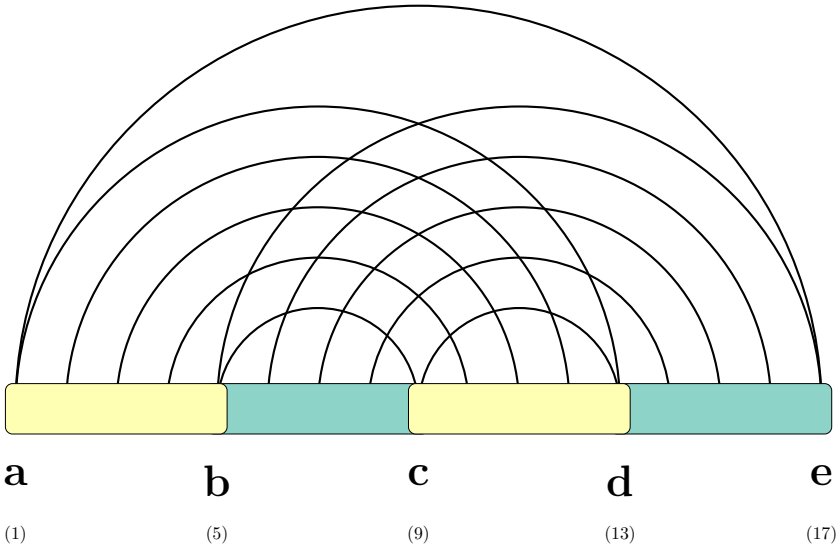
fatgraph name: H



first and last anchors, already given: a, e

$$A = \min_{b,c,d} \Big(C_{\boxtimes}\,[a,b,c,d] + C_{\boxtimes}\,[b,c,d,e] \Big)$$

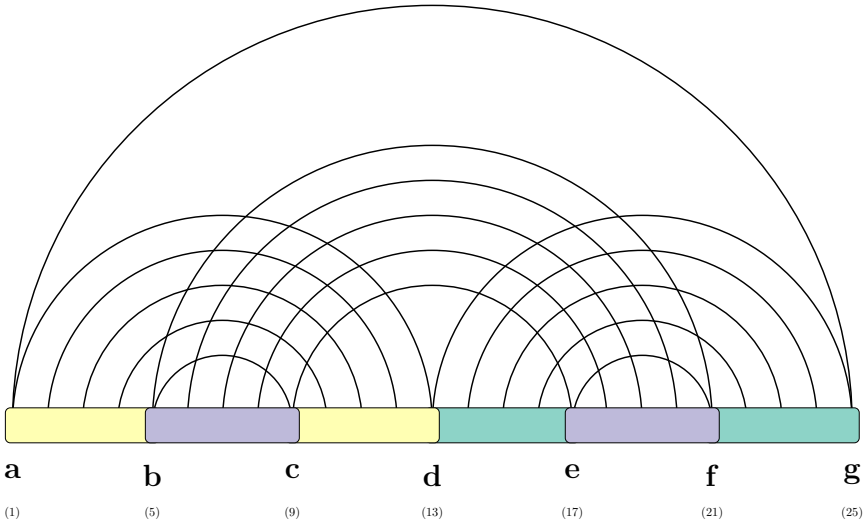
fatgraph name: H2



first and last anchors, already given: a, e

$$A = \min_{b,c,d} \Big(C_{\boxtimes}\,[a,b,c,d] + C_{\boxtimes}\,[b,c,d,e] \Big)$$

fatgraph name: K



first and last anchors, already given: a, g

$$A = \min_{d} \Big(B\,[g, d \mid d, a] \Big)$$

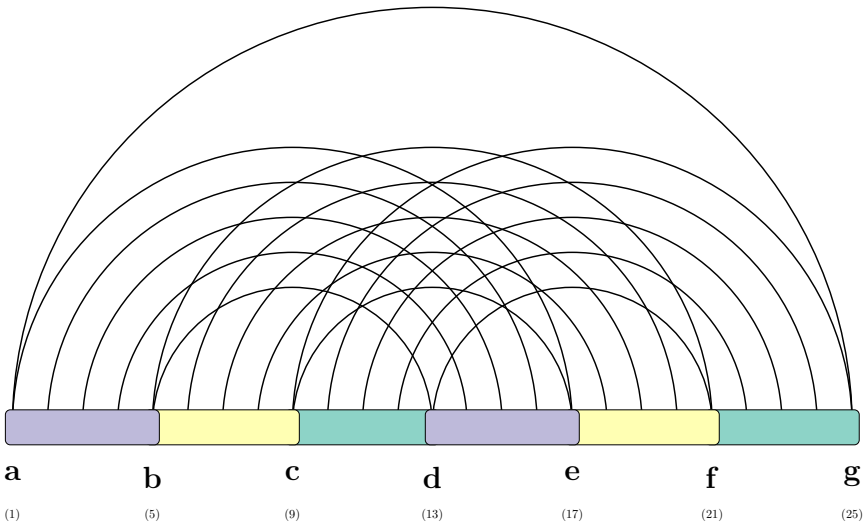
$$B'\,[g, d \mid d', a] = \min \begin{cases} B'\,[g, d-1 \mid d', a], & \text{if } d-1, \notin \{g, d', a\} \\ B\,[g+1, d-1 \mid d', a] + \Delta G(g, d) & \text{if } \{g+1, d-1\} \cap \{d', a\} = \emptyset \end{cases}$$

$$B\,[g, d \mid d', a] = \min \begin{cases} B\,[g+1, d \mid d', a], & \text{if } g+1 \notin \{d, d', a\} \\ B'\,[g, d-1 \mid d', a], & \text{if } d-1, \notin \{g, d', a\} \\ B\,[g+1, d-1 \mid d', a] + \Delta G(g, d) & \text{if } \{g+1, d-1\} \cap \{d', a\} = \emptyset, \\ C\,[d', a \mid g, d] \end{cases}$$

$$C'\,[d, a \mid f, e] = \min \Big\{ C'\,[d+1, a \mid f, e], \quad \text{if } d+1 \notin \{a, f, e\}$$

$$C\,[d, a \mid f, e] = \min \begin{cases} C\,[d, a-1 \mid f, e], & \text{if } a-1, \notin \{d, f, e\} \\ C'\,[d+1, a \mid f, e], & \text{if } d+1 \notin \{a, f, e\} \\ C\,[d+1, a-1 \mid f, e] + \Delta G(d, a) & \text{if } \{d+1, a-1\} \cap \{f, e\} = \emptyset, \\ C_{\boxtimes}\,[a, d, e, f] \end{cases}$$

fatgraph name: L

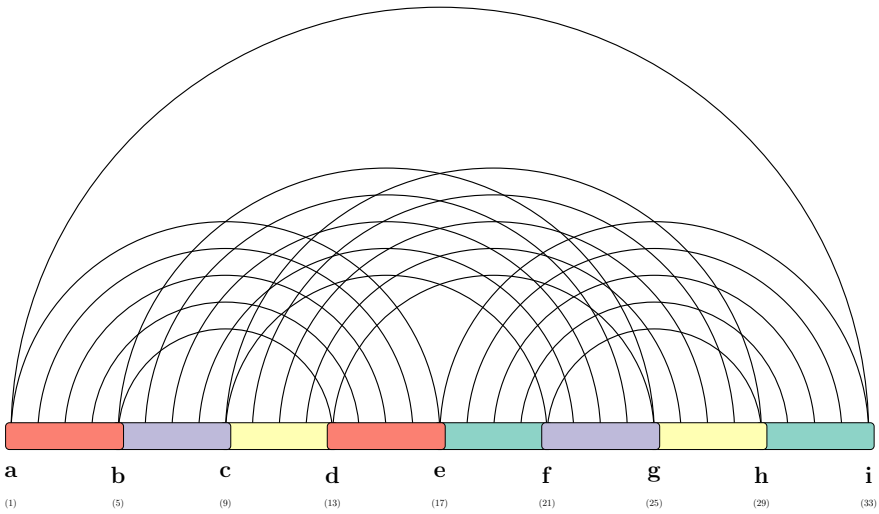


first and last anchors, already given: a, g

$$A = \min_{c,d,f} \Big(B[c,d,f,a] + C_{\boxtimes}\,[c,d,f,g] \Big)$$

$$B\,[a,c,d,f] = \min_{b,e} \Big(C_{\boxtimes}\,[a,b,d,e] + C_{\boxtimes}\,[b,c,e,f] \Big)$$

fatgraph name: M



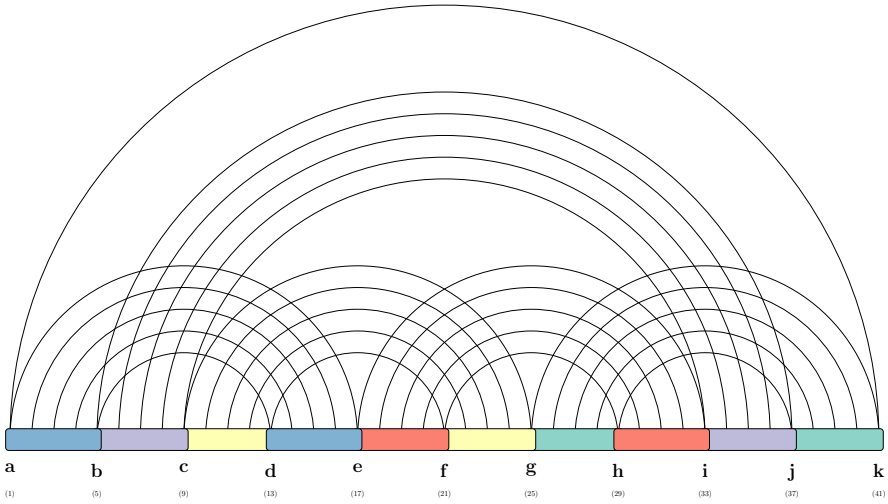
first and last anchors, already given: a, i

$$A = \min_{e,f,h} \left(C_{\boxtimes}[e, f, h, i] + B[f, e, a, h] \right)$$

$$B\,[a, e, f, h] = \min_{b,d} \left(C[f, b, h, d] + C_{\boxtimes}[a, b, d, e] \right)$$

$$C\,[b, d, f, h] = \min_{c,g} \left(C_{\boxtimes}[c, d, g, h] + C_{\boxtimes}[b, c, f, g] \right)$$

fatgraph name: C5



first and last anchors, already given: a, k

$$A = \min_{g,h,j} \Big(B[g,j,a,h] + C_{\boxtimes}[g,h,j,k] \Big)$$

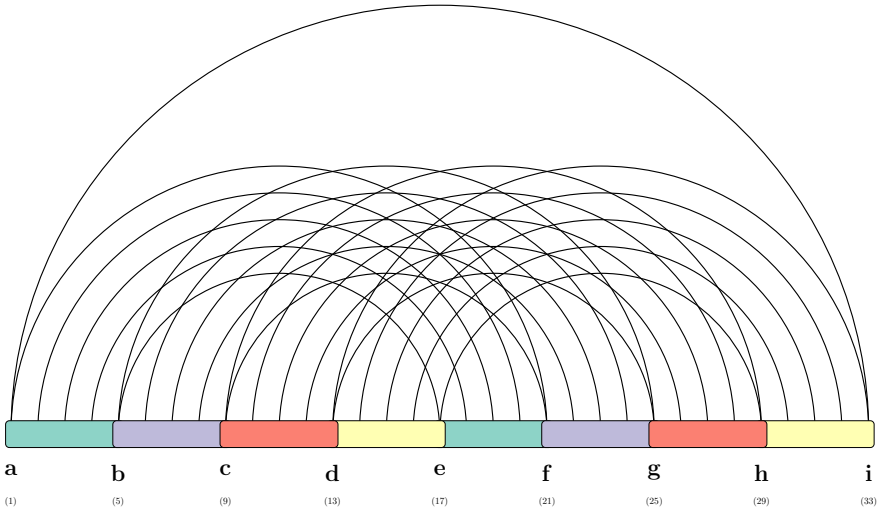
$$B\,[a,g,h,j] = \min_{e,f,i} \Big(C\,[e,a \mid g,j,f,i] + C_{\boxtimes}[e,f,h,i] \Big)$$

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

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

$$D\,[b,d,f,g,i,j] = \min_{c} \Big(C_{\boxtimes}\,[c,d,f,g] + C_{\boxtimes}\,[b,c,i,j] \Big)$$

fatgraph name: K4



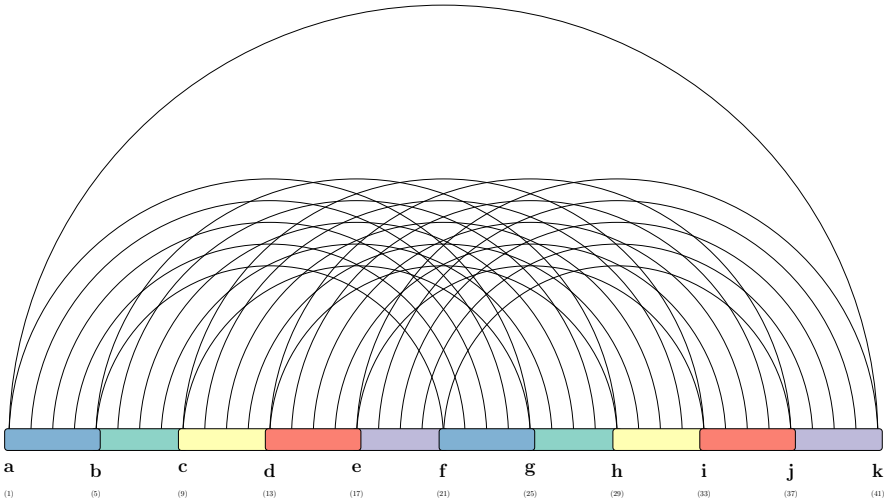
first and last anchors, already given: a, i

$$A = \min_{d,e,h} \Big(B[a,d,h,e] + C_{\boxtimes}\,[d,e,h,i] \Big)$$

$$B\,[a,d,e,h] = \min_{c,g} \Big(C[a,c,g,e] + C_{\boxtimes}\,[c,d,g,h] \Big)$$

$$C\,[a,c,e,g] = \min_{b,f} \Big(C_{\boxtimes}\,[a,b,e,f] + C_{\boxtimes}\,[b,c,f,g] \Big)$$

fatgraph name: K5



first and last anchors, already given: a, k

$$A = \min_{e,f,j} \Big(B[a,f,j,e] + C_{\boxtimes}\,[e,f,j,k] \Big)$$

$$B\,[a,e,f,j] = \min_{d,i} \Big(C[d,a,f,i] + C_{\boxtimes}\,[d,e,i,j] \Big)$$

$$C\,[a,d,f,i] = \min_{b,g} \Big(C_{\boxtimes}\,[a,b,f,g] + D[d,b,g,i] \Big)$$

$$D\,[b,d,g,i] = \min_{c,h} \Big(C_{\boxtimes}\,[b,c,g,h] + C_{\boxtimes}\,[c,d,h,i] \Big)$$