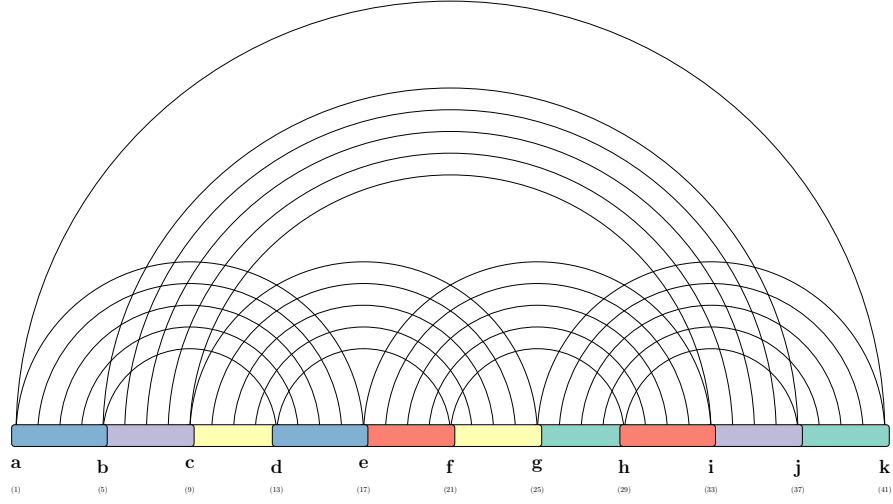


fatgraph name: C5



first and last anchors, already given: a, k

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

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

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

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

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