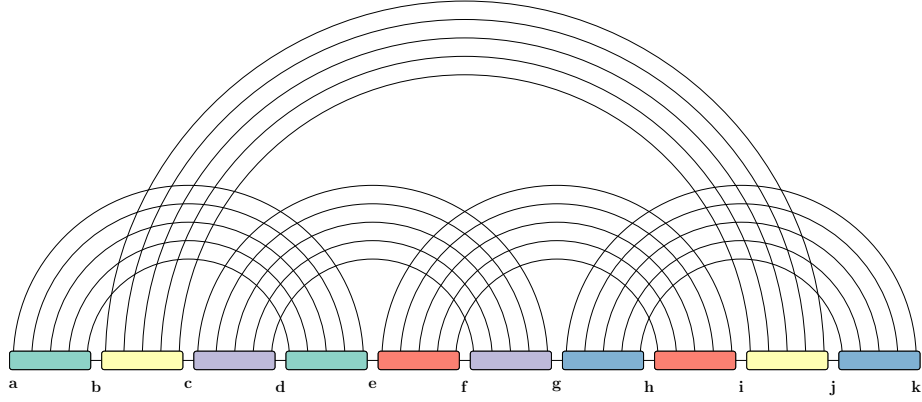


fatgraph name: C5



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

$$A = \min_{g,h,j} \left( B[a, g, h, j] + C_{\boxtimes}[g, h-1, j, k-1] \right)$$

$$B[a, g, h, j] = \min_{e,f,i} \left( C_{\boxtimes}[e, f-1, h, i-1] + C[a, e|f, g, i, j] \right)$$

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

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

$$D[b, d, f, g, i, j] = \min_c \left( C_{\boxtimes}[c, d-1, f, g-1] + C_{\boxtimes}[b, c-1, i, j-1] \right)$$