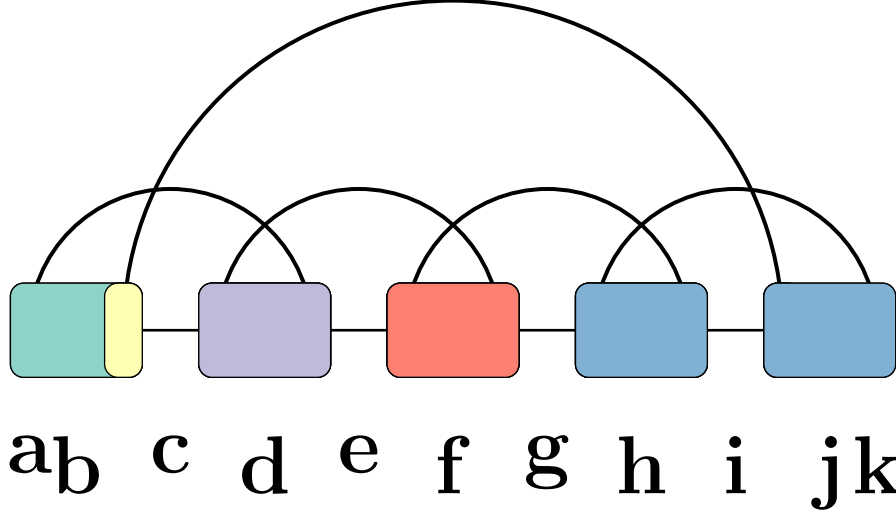


fatgraph name: C5



first and last anchors, already given: a, l

$$A = \min(B \square)$$

$$B = \min_{a,c,f,h,l} \left(\textcolor{teal}{G}[a, h|c, f] + \textcolor{yellow}{C}[c, l|f, h] \right)$$

$$\textcolor{yellow}{C}'[c, l|f, h] = \min \begin{cases} \textcolor{yellow}{C}'[c+1, l|f, h], & \text{if } c+1 \notin \{l, f, h\} \\ \textcolor{yellow}{C}[c+1, l-1|f, h] + \Delta G(c, l) & \text{if } \{c+1, l-1\} \cap \{f, h\} = \emptyset \end{cases}$$

$$\textcolor{yellow}{C}[c, l|f, h] = \min \begin{cases} \textcolor{yellow}{C}[c, l-1|f, h], & \text{if } l-1 \notin \{c, f, h\} \\ \textcolor{yellow}{C}'[c+1, l|f, h], & \text{if } c+1 \notin \{l, f, h\} \\ \textcolor{yellow}{C}[c+1, l-1|f, h] + \Delta G(c, l) & \text{if } \{c+1, l-1\} \cap \{f, h\} = \emptyset \end{cases}$$

$$D[d, f, h, k] = \min_j (E[d, f, h, j])$$

$$E[d, f, h, j] = \min_e (F[e, f, h, j])$$

$$F[e, f, h, j] = \min_i \left(\textcolor{purple}{C}_{\boxtimes}[e, f-1, i, j-1] \right)$$

$$\textcolor{teal}{G}'[a, h|c, f] = \min \begin{cases} \textcolor{teal}{G}'[a, h-1|c, f], & \text{if } h-1 \notin \{a, c, f\} \\ \textcolor{teal}{G}[a+1, h-1|c, f] + \Delta G(a, h) & \text{if } \{a+1, h-1\} \cap \{c, f\} = \emptyset \end{cases}$$

$$\textcolor{teal}{G}[a, h|c, f] = \min \begin{cases} \textcolor{teal}{G}[a+1, h|c, f], & \text{if } a+1 \notin \{h, c, f\} \\ \textcolor{teal}{G}'[a, h-1|c, f], & \text{if } h-1 \notin \{a, c, f\} \\ \textcolor{teal}{G}[a+1, h-1|c, f] + \Delta G(a, h) & \text{if } \{a+1, h-1\} \cap \{c, f\} = \emptyset \end{cases}$$