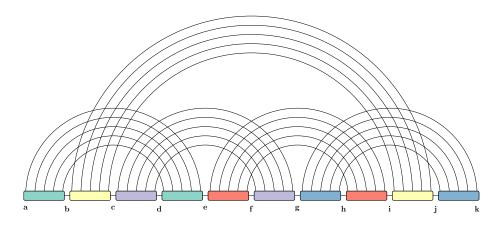


fatgraph name: C5



first and last anchors, already given: a, k

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

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

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

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

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

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

