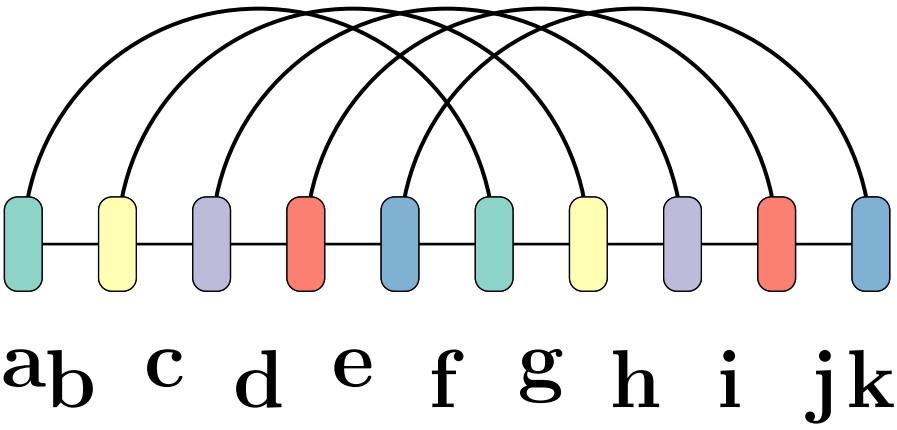
fatgraph name: K5



first and last anchors, already given: a, t

$$A = \min\left(B\left[\right]\right)$$

$$B = \min_{a,c,g,j,l,q}\Big(L\left[a,l|c,j\right] + G\left[c,g,l,q\right] + C\left[a,g,j,q\right]\Big)$$

$$C\left[a,g,j,q\right] = \min_{h,r}\Big(C_{\boxtimes}\left[g,h-1,q,r-1\right] + D\left[a,h,j,r\right]\Big)$$

$$D\left[a,h,j,r\right] = \min_{i}\left(E\left[a,i,j,r\right]\right)$$

$$E\left[a,i,j,r\right] = \min_{t}\left(F\left[i,j,r,t\right]\right)$$

$$F\left[i,j,r,t\right] = \min_{s}\Big(C_{\boxtimes}\left[i,j-1,s,t-1\right]\Big)$$

$$G\left[c,g,l,q\right] = \min_{d,n}\left(I\left[d,g,n,q\right] + H\left[c,d,l,n\right]\right)$$

$$H\left[c,d,l,n\right] = \min_{m}\Big(C_{\boxtimes}\left[c,d-1,m,n-1\right]\Big)$$

$$I\left[d,g,n,q\right] = \min_{p}\left(J\left[d,g,n,p\right]\right)$$

$$J\left[d,g,n,p\right] = \min_{e}\Big(K\left[e,p|g,n\right]\Big)$$

$$K'\left[e,p|g,n\right] = \min\begin{cases} K'\left[e,p-1|g,n\right], & \text{if } p-1, \notin \{e,g,n\} \\ K\left[e+1,p-1|g,n\right] + \Delta G(e,p) & \text{if } \{e+1,p-1\} \cap \{g,n\} = \emptyset \end{cases}$$

$$K[e,p|g,n] = \min \begin{cases} K[e+1,p|g,n], & \text{if } e+1 \notin \{p,g,n\} \\ K'[e,p-1|g,n], & \text{if } p-1, \notin \{e,g,n\} \\ K[e+1,p-1|g,n] + \Delta G(e,p) & \text{if } \{e+1,p-1\} \cap \{g,n\} = \emptyset \end{cases}$$

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

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