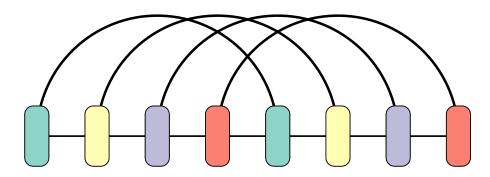
fatgraph name: K4



ab c d e f g hi

first and last anchors, already given: a, p

$$A = \min(B \mid I)$$

$$B = \min_{a,c,e,h,j,m} (I \mid [a,c,h,j] + F \mid [c,e,j,m] + C \mid [a,e,h,m])$$

$$C \mid [a,e,h,m] = \min_{f,n} \left(\begin{array}{c} C_{\boxtimes} \mid [e,f-1,m,n-1] + D \mid [a,f,h,n] \\ \end{array} \right)$$

$$D \mid [a,f,h,n] = \min_{o} \left(\begin{array}{c} E \mid [h,o|a,f] \\ E \mid [h-1,o+1|a,f] + \Delta G(h,o) \end{array} \right) \text{ if } h-1 \notin \{o,a,f\}$$

$$E \mid [h,o|a,f] = \min \begin{cases} \begin{array}{c} E \mid [h,o+1|a,f], & \text{if } o+1, \neq \{h,a,f\} \\ E \mid [h-1,o+1|a,f], & \text{if } o+1, \neq \{h,a,f\} \\ \end{array} \right)$$

$$E \mid [h,o|a,f] = \min \begin{cases} \begin{array}{c} E \mid [h,o+1|a,f], & \text{if } h-1 \notin \{o,a,f\} \\ E \mid [h-1,o+1|a,f], & \text{if } h-1 \notin \{o,a,f\} \\ \end{array} \right)$$

$$E \mid [h,o|a,f] = \min \left\{ \begin{array}{c} E \mid [h,o+1|a,f], & \text{if } h-1 \notin \{o,a,f\} \\ \end{array} \right\}$$

$$E \mid [h,o|a,f] = \min_{l} \left(G \mid [c,e,j,l] \right)$$

$$F \mid [c,e,j,m] = \min_{l} \left(G \mid [c,e,j,l] \right)$$

$$H \mid [c,d,j,l] = \min_{l} \left(C_{\boxtimes} \mid [c,d-1,k,l-1] \right)$$

$$I \mid [a,c,h,j] = \min_{l} \left(C_{\boxtimes} \mid [a,b-1,i,j-1] \right)$$