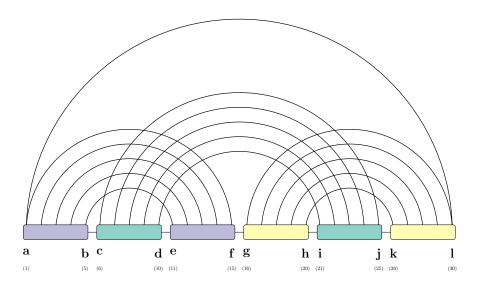


## fatgraph name: K



first and last anchors, already given: a, l

$$A = \min_{f,h,k} \left( B[a,f,k,h] + G[f,k,h,l] \right)$$

$$B\left[ a,f,h,k \right] = \min_{i} \left( C[a,f,i,k] \right)$$

$$C\left[ a,f,i,k \right] = \min_{j} \left( D\left[ a,f \mid i,j \right] \right)$$

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

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

$$E\left[ b,e,i,j \right] = \min_{c} \left( F[e,c,i,j] \right)$$

$$F\left[ c,e,i,j \right] = \min_{d} \left( C_{\boxtimes}\left[ c,d,i,j \right] \right)$$

$$G\left[ f,h,k,l \right] = \min_{g} \left( C_{\boxtimes}\left[ g,h,k,l \right] \right)$$

