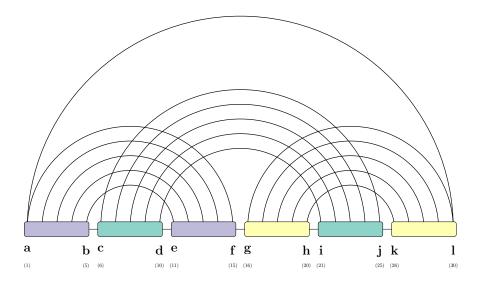
## fatgraph name: K



first and last anchors, already given: a, l

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

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

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

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

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

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

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