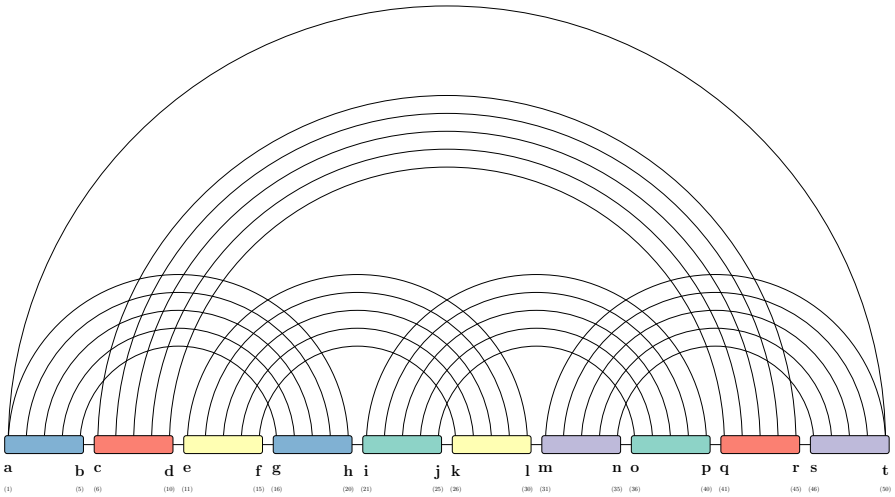
fatgraph name: C5



first and last anchors, already given: a, t

$$A = \min_{m,n,r} \left(B[r,n,m,a] + M[r,t,n,m] \right)$$

$$B\left[a,m,n,r\right] = \min_{l} \left(C[r,n,l,a] \right)$$

$$C\left[a,l,n,r\right] = \min_{h,k,p} \left(D\left[a,h \mid r,p,l,k\right] + J[n,a,k,h,p] \right)$$

$$D'\left[a,h \mid r,p,l,k\right] = \min \begin{cases} D'[a,h-1 \mid r,p,l,k], & \text{if } h-1, \notin \{a,r,p,l,k\} \\ D\left[a+1,h-1 \mid r,p,l,k\right] + \Delta G(a,h) & \text{if } \{a+1,h-1\} \cap \{r,p,l,k\} = \emptyset \end{cases}$$

$$D\left[a,h \mid r,p,l,k\right] = \min \begin{cases} D\left[a+1,h \mid r,p,l,k\right], & \text{if } a+1 \notin \{h,r,p,l,k\} \\ D'[a,h-1 \mid r,p,l,k], & \text{if } h-1, \notin \{a,r,p,l,k\} \\ D\left[a+1,h-1 \mid r,p,l,k\right] + \Delta G(a,h) & \text{if } \{a+1,h-1\} \cap \{r,p,l,k\} = \emptyset, \\ E[h,k,r,p,l,a] \end{cases}$$

$$E\left[b,g,k,l,p,r\right] = \min_{e} \left(F[r,p,b,e] + I[k,e,g,l,b] \right)$$

$$F\left[b,e,p,r\right] = \min_{c} \left(G[r,p,c,e] \right)$$

$$G\left[c,e,p,r\right] = \min_{q} \left(H[r,c,e,q] \right)$$

$$H\left[c,e,q,r\right] = \min_{d} \left(C_{\boxtimes}\left[c,d,q,r\right] \right)$$

$$I\left[b,e,g,k,l\right] = \min_{f} \left(C_{\boxtimes}\left[e,f,k,l\right] \right)$$

$$J\left[a,h,k,n,p\right] = \min_{i}\left(K[n,i,p,k]\right)$$

$$K\left[i,k,n,p\right] = \min_{o}\left(L[p,o,i,k]\right)$$

$$L\left[i,k,o,p\right] = \min_{j}\left(C_{\boxtimes}[i,j,o,p]\right)$$

$$M\left[m,n,r,t\right] = \min_{s}\left(C_{\boxtimes}[m,n,s,t]\right)$$