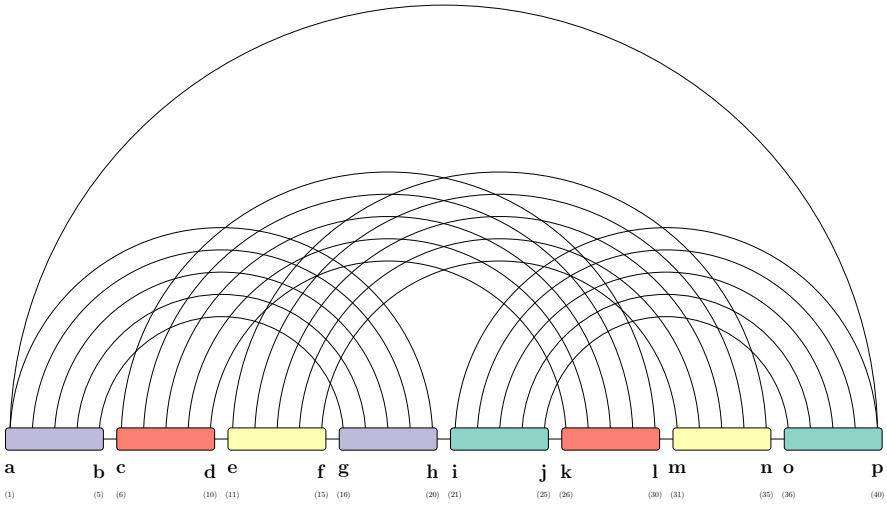
fatgraph name: M



first and last anchors, already given: a, p

$$A = \min_{i,j,n} \left(B[j,i,a,n] + I[j,i,n,p] \right)$$

$$B\left[a,i,j,n\right] = \min_{b,g} \left(C[j,b,g,n] + H[i,b,g,a] \right)$$

$$C\left[b,g,j,n\right] = \min_{c,f} \left(D[j,c,n,f] \right)$$

$$D\left[c,f,j,n\right] = \min_{d,l} \left(E[j,l,c,d] + F[l,n,f,d] \right)$$

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

$$F\left[d,f,l,n\right] = \min_{e} \left(G[e,l,n,f] \right)$$

$$G\left[e,f,l,n\right] = \min_{m} \left(C_{\boxtimes}[e,f,m,n] \right)$$

$$H\left[a,b,g,i\right] = \min_{h} \left(C_{\boxtimes}[a,b,g,h] \right)$$

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