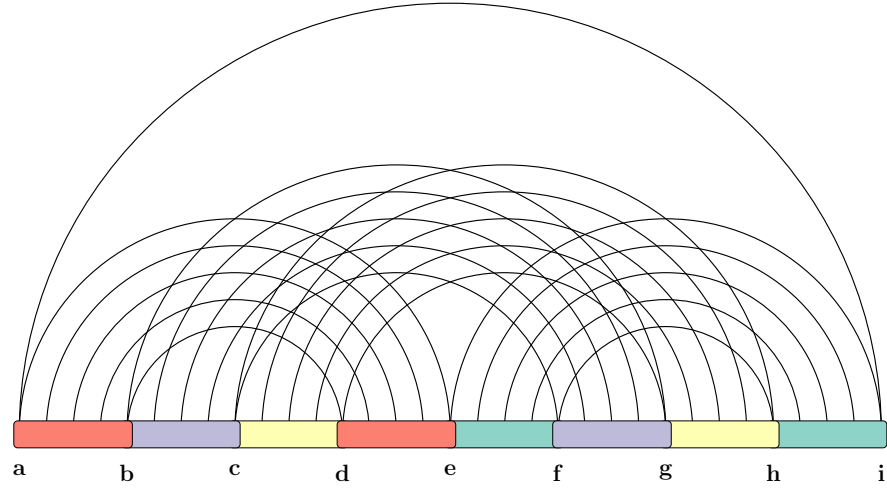**fatgraph name: M**

first and last anchors, already given: a, i

$$A = \min_{e,f,h} \left(\boxed{C_\boxtimes} [e, f, h, i] + B[h, f, e, a] \right)$$

$$B[a, e, f, h] = \min_{b,d} \left(C[f, b, d, h] + \boxed{C_\boxtimes} [a, b, d, e] \right)$$

$$C[b, d, f, h] = \min_{c,g} \left(\boxed{C_\boxtimes} [c, d, g, h] + \boxed{C_\boxtimes} [b, c, f, g] \right)$$