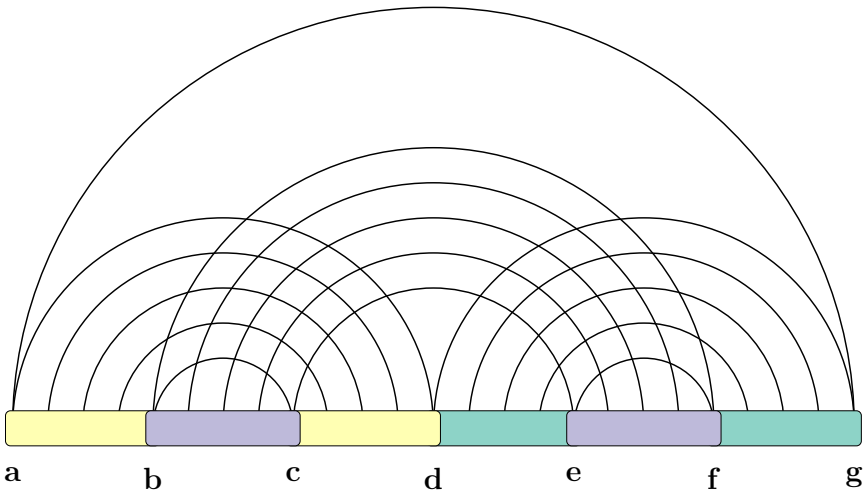
fatgraph name: K



first and last anchors, already given: a, g

$$A = \min_{d} \Big(B\,[d, g|d, a] \Big)$$

$$B'\,[d, g|d', a] = \min \begin{cases} B'\,[d, g-1|d', a], & \text{if } g-1, \notin \{d, d', a\} \\ B\,[d+1, g-1|d', a] + \Delta G(d, g) & \text{if } \{d+1, g-1\} \cap \{d', a\} = \emptyset \end{cases}$$

$$B\,[d, g|d', a] = \min \begin{cases} B\,[d+1, g|d', a], & \text{if } d+1 \notin \{g, d', a\} \\ B'\,[d, g-1|d', a], & \text{if } g-1, \notin \{d, d', a\} \\ B\,[d+1, g-1|d', a] + \Delta G(d, g) & \text{if } \{d+1, g-1\} \cap \{d', a\} = \emptyset, \\ C\,[d', a|13, 25] \end{cases}$$

$$C'\,[d, a|e, f] = \min \Big\{ C'\,[d+1, a|e, f], \quad \text{if } d+1 \notin \{a, e, f\}$$

$$C\,[d, a|e, f] = \min \begin{cases} C\,[d, a-1|e, f], & \text{if } a-1, \notin \{d, e, f\} \\ C'\,[d+1, a|e, f], & \text{if } d+1 \notin \{a, e, f\} \\ C\,[d+1, a-1|e, f] + \Delta G(d, a) & \text{if } \{d+1, a-1\} \cap \{e, f\} = \emptyset, \\ C_{\boxtimes}\,[1, 13, e, f] \end{cases}$$