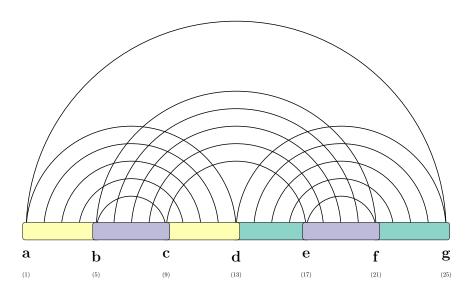
fatgraph name: K



first and last anchors, already given: a, g

$$A = \min_{d} \left(B \left[d, g \mid d, a \right] \right)$$

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

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

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

$$C[d,a \mid f,e] = \min \begin{cases} C[d+1,a \mid f,e], & \text{if } a-1,\notin \{a,f,e\} \\ C'[d,a-1 \mid f,e], & \text{if } a-1,\notin \{d,f,e\} \\ C'[d+1,a-1 \mid f,e], & \text{if } a-1,\notin \{d,f,e\} \\ C[d+1,a-1 \mid f,e], & \text{if } a-1,\notin \{d,f,e\} \\ C[d+1,a-1 \mid f,e], & \text{if } a-1,\notin \{d,f,e\} \end{cases}$$