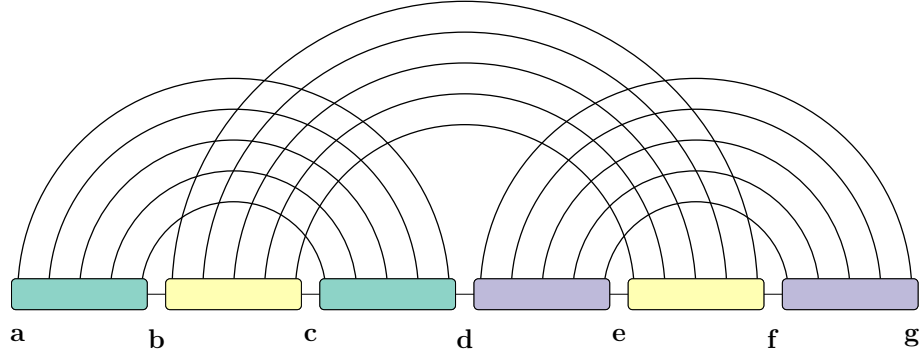


fatgraph name: **K**



first and last anchors, already given:  $a, g$

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

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

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

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

$$\textcolor{purple}{C}[d, g|b, c] = \min \begin{cases} \textcolor{purple}{C}[d+1, g|b, c], & \text{if } d+1 \notin \{g, b, c\} \\ \textcolor{purple}{C}'[d, g-1|b, c], & \text{if } g-1, \notin \{d, b, c\} \\ \textcolor{purple}{C}[d+1, g-1|b, c] + \Delta G(d, g) & \text{if } \{d+1, g-1\} \cap \{b, c\} = \emptyset, \\ \textcolor{yellow}{C}_{\boxtimes}'[b, c-1, d, g+1-1] \end{cases}$$

-1



**1 13 25**



H0 (1-5-9-13) (diag)

**2 1**  
**25 13**



**2 12 3**  
**25 13**



**12 3 11**  
**25 13**



**4 3 11**  
**25 13**



**4 10 11**  
**25 13**



**4 5 10**  
**25 13**



**5 10 9**  
**25 13**



H2 (13-17-21-25) (diag)

**25 13 14**  
**5 9**



**25 24 14**  
**5 9**



**15 24 14**  
**5 9**



**23 15 24**  
**5 9**



**23 15 16**  
**5 9**



**23 16 22**  
**5 9**



**16 22 17**  
**5 9**



**21 22 17**  
**5 9**



H1 (5-9-17-21) (clique)

**6 5 21**  
**9 17**



**6 20 21**  
**9 17**



**7 6 20**  
**9 17**



**19 7 20**  
**9 17**



**19 7 8**  
**9 17**



**19 8 18**  
**9 17**

-1



**A** 1 13 25



H0 (1-5-9-13) (diag)



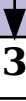
<b>B</b> 13 1
13 25



5 9
13 25



H2 (13-17-21-25) (diag)



<b>C</b> 13 25
5 9



17 21
5 9



H1 (5-9-17-21) (clique)



5 21 9 17
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