

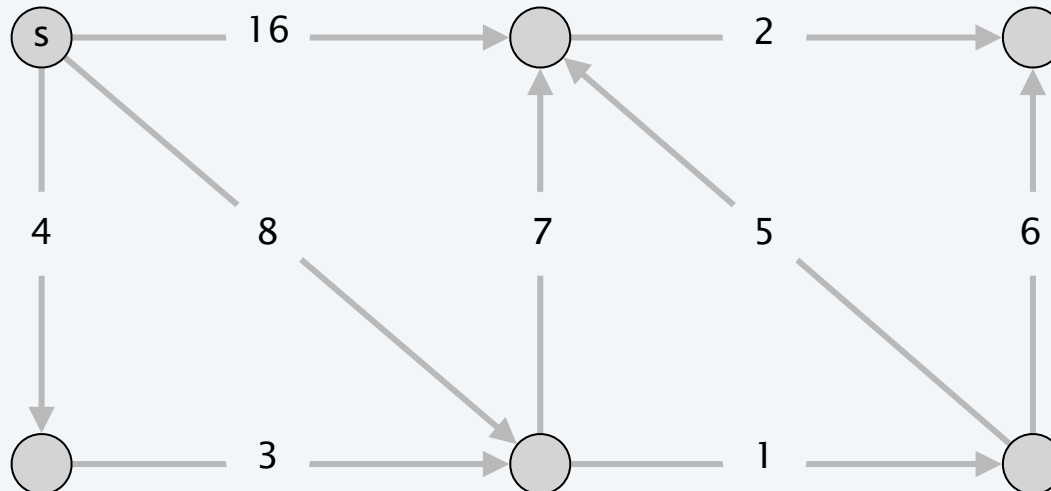
# Dijkstra's algorithm demo

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- Initialize  $S = \{ s \}$ ,  $d(s) = 0$ .
- Repeatedly choose unexplored node  $v$  which minimizes

$$\pi(v) = \min_{e = (u,v) : u \in S} d(u) + \ell_e,$$

add  $v$  to  $S$ ; set  $d(v) = \pi(v)$ .



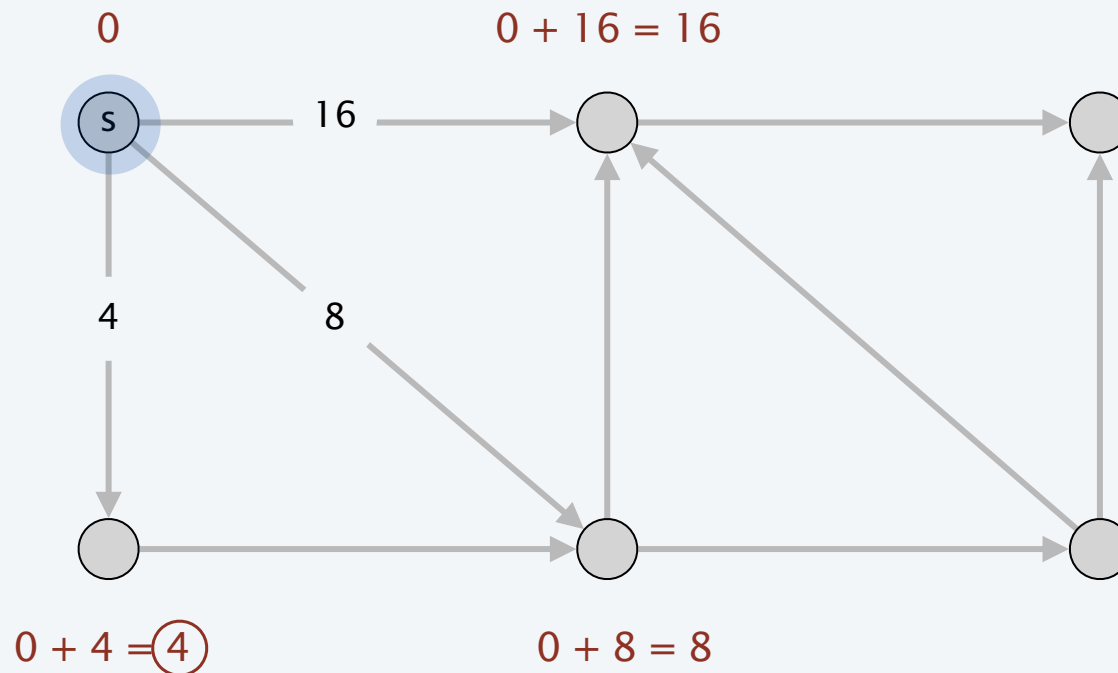
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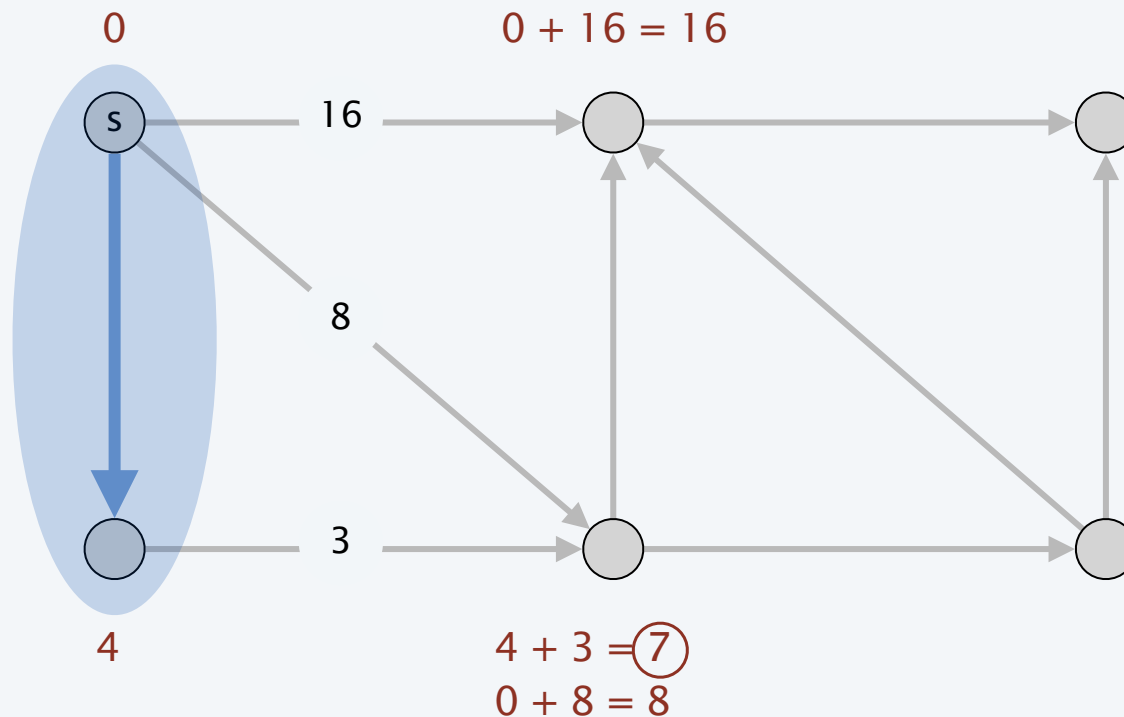
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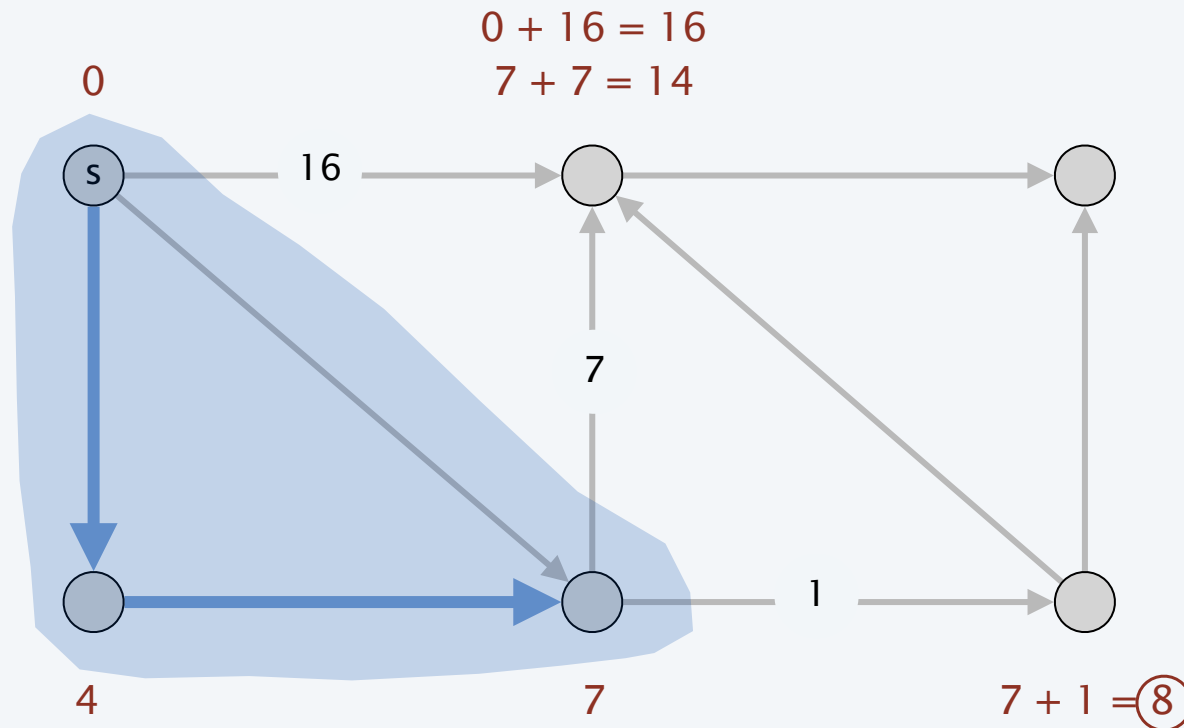
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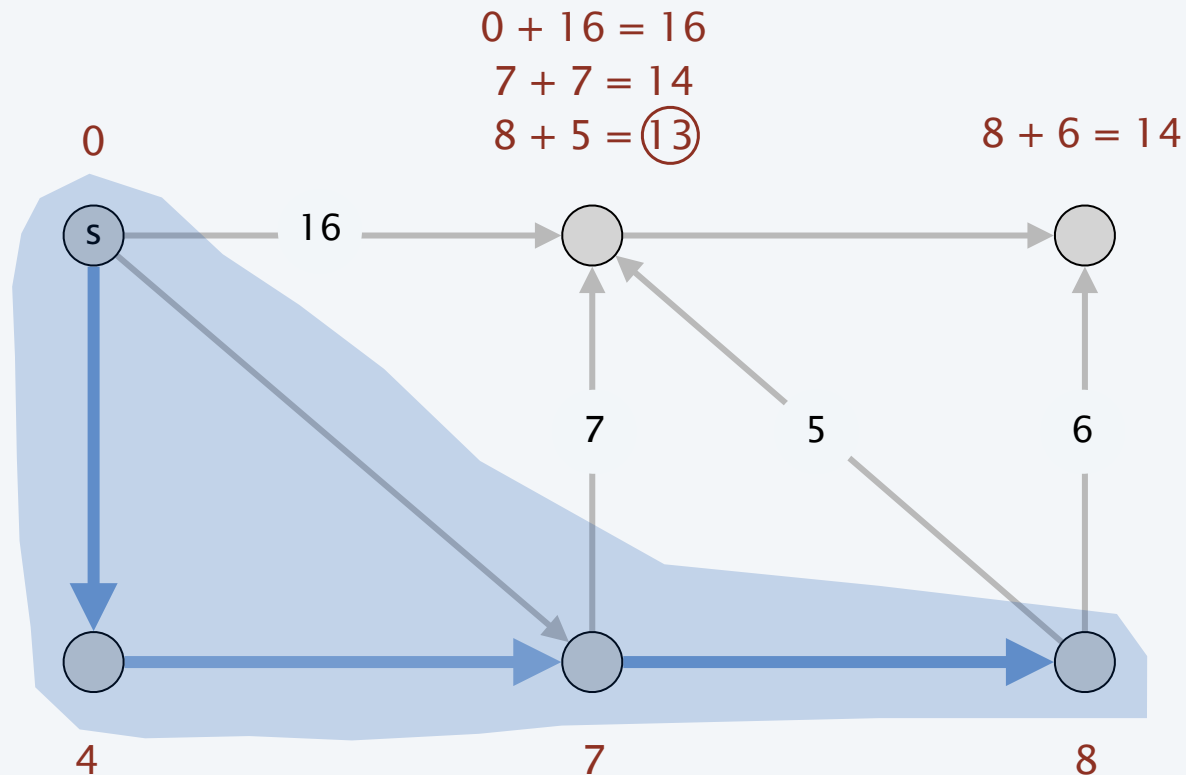
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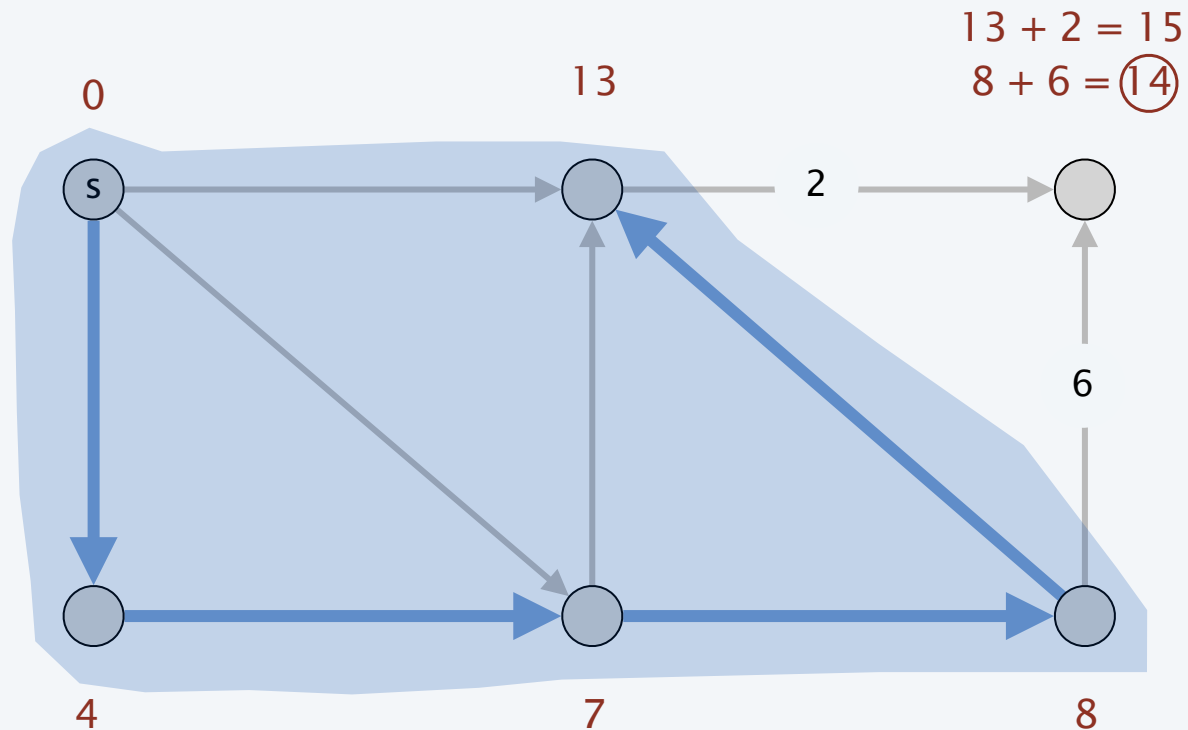
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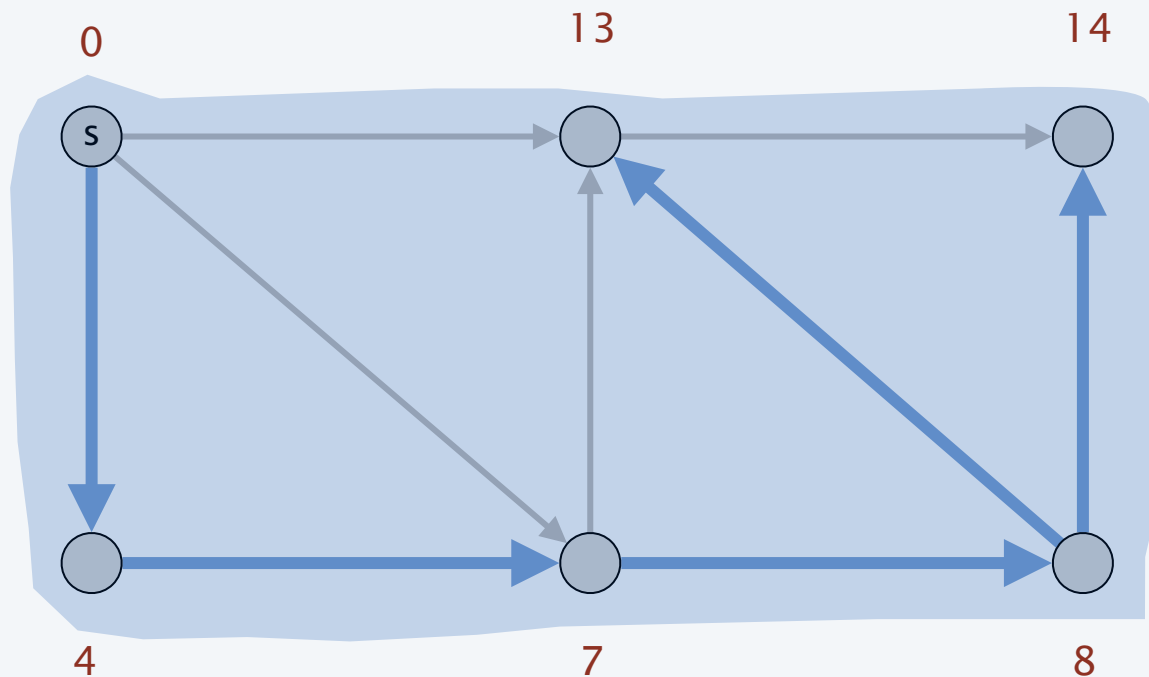
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