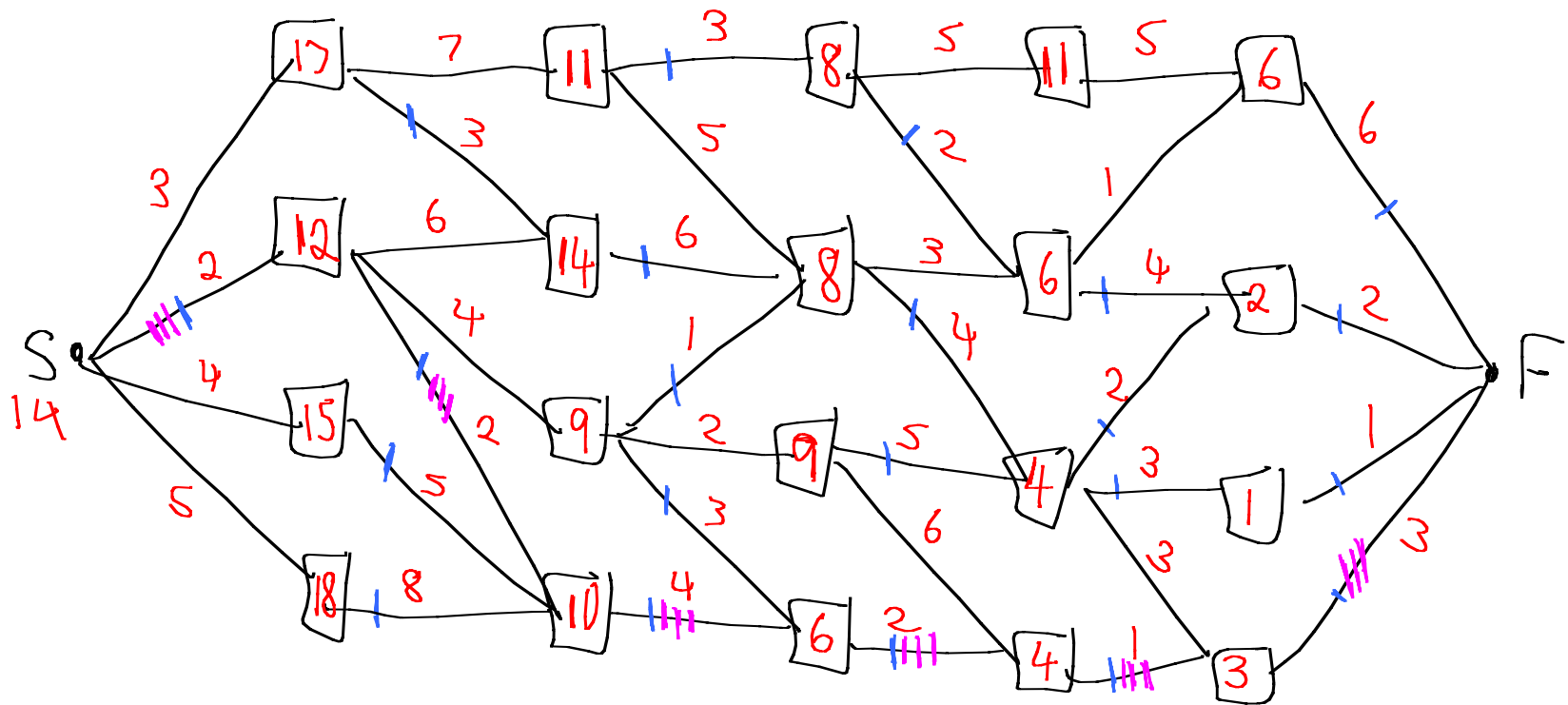


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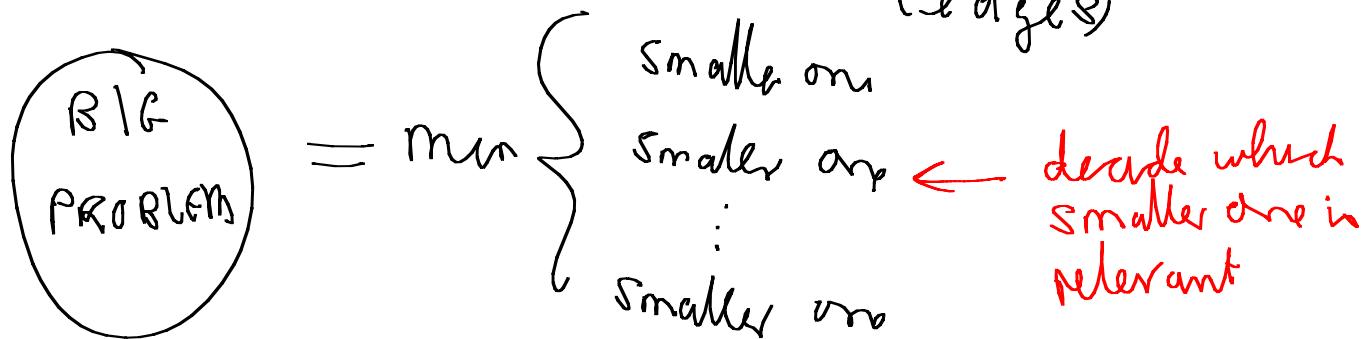
Shortest path problem



Lesson: we solved k -level problems by
amalgamating solutions to several
 $(k-1)$ -level problems.

In a general DP solution, "states"
[vertices]

where to go next — decisions
(edges)





$$\# \text{ paths } S \rightarrow F = d^n$$

$$\# \text{ steps in algorithm} \approx n \times d^2$$