



## 4. GREEDY ALGORITHMS (PART II)

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- ▶ *Kruskal's algorithm demo*

Lecture slides by Kevin Wayne

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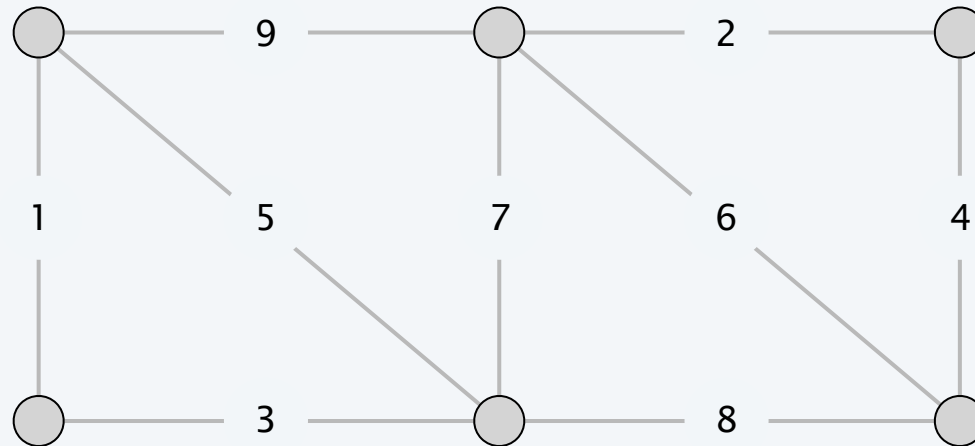
<http://www.cs.princeton.edu/~wayne/kleinberg-tardos>

# Kruskal's algorithm demo

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Consider edges in ascending order of weight:

- Add to tree unless it would create a cycle.

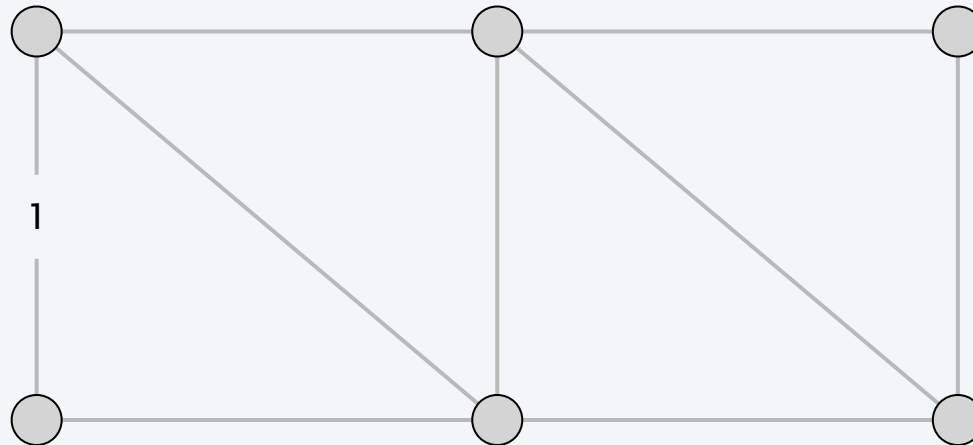


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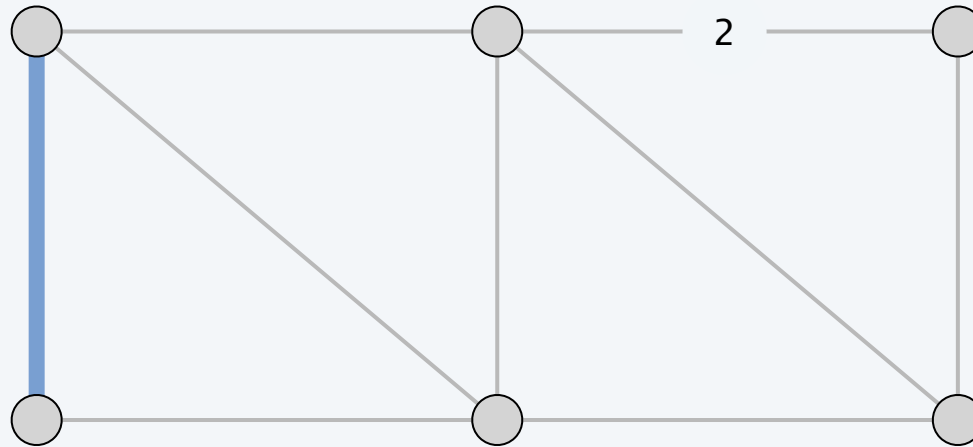


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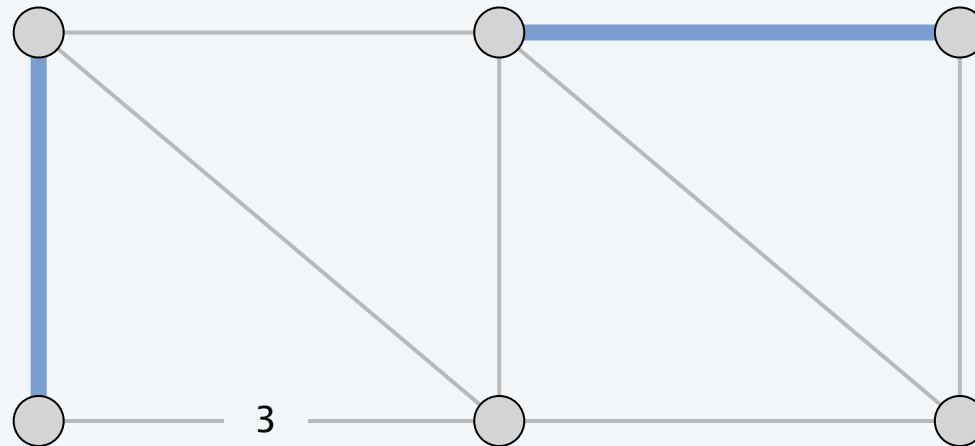


# Kruskal's algorithm demo

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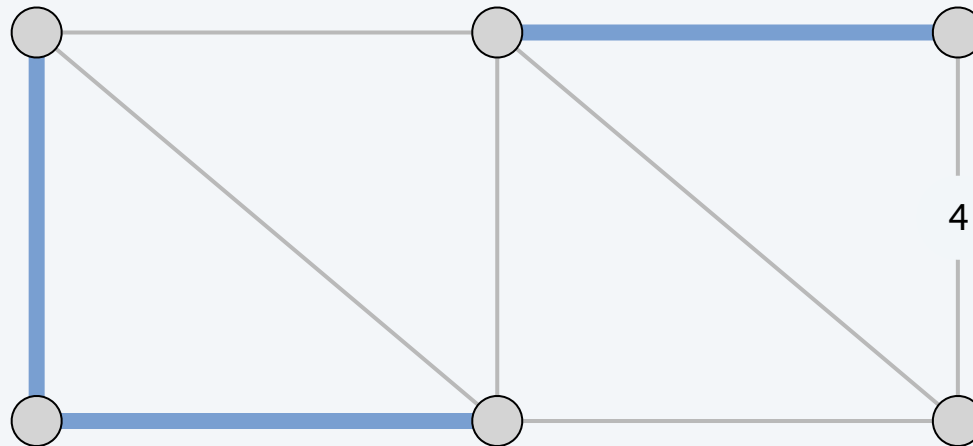


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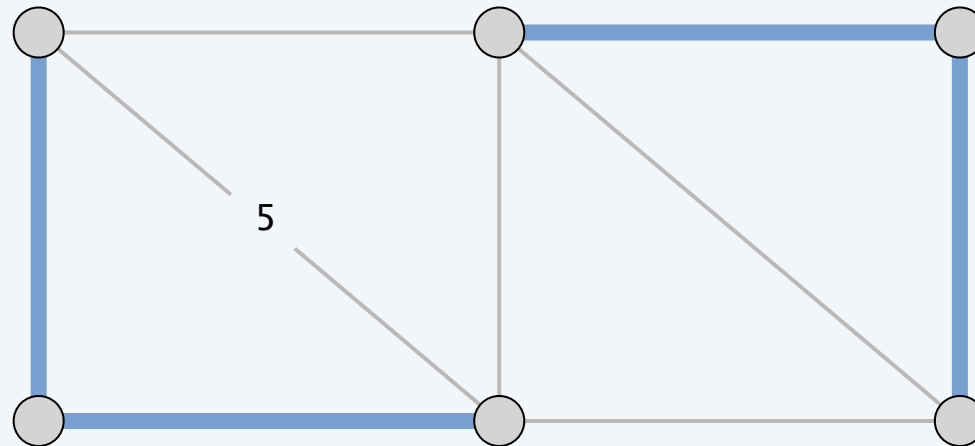


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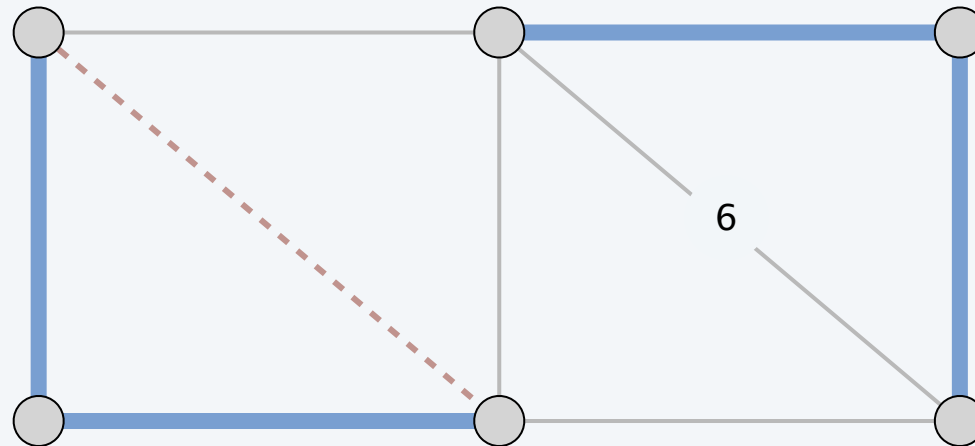


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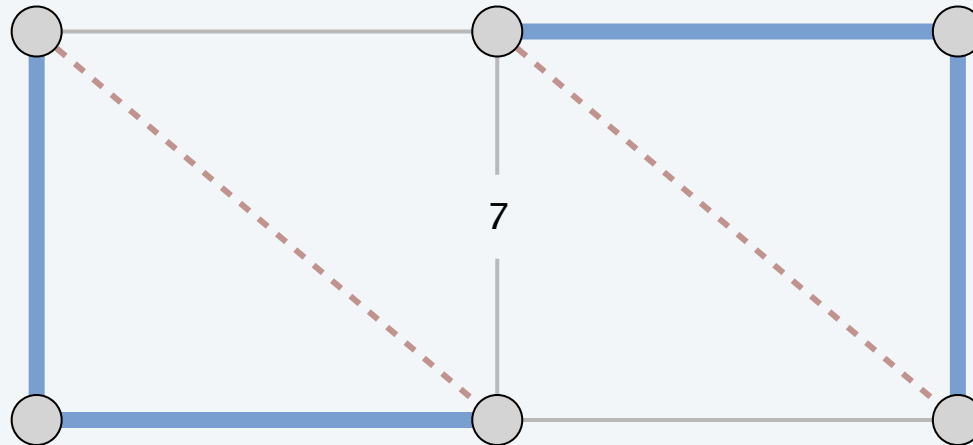


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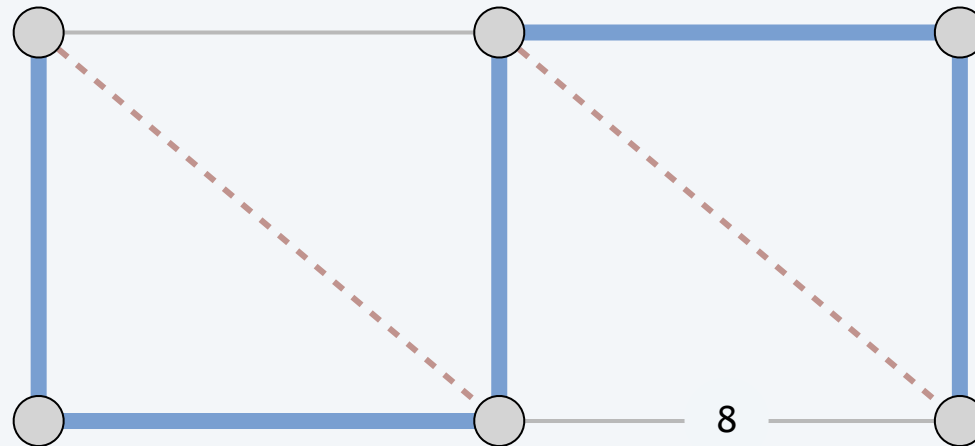


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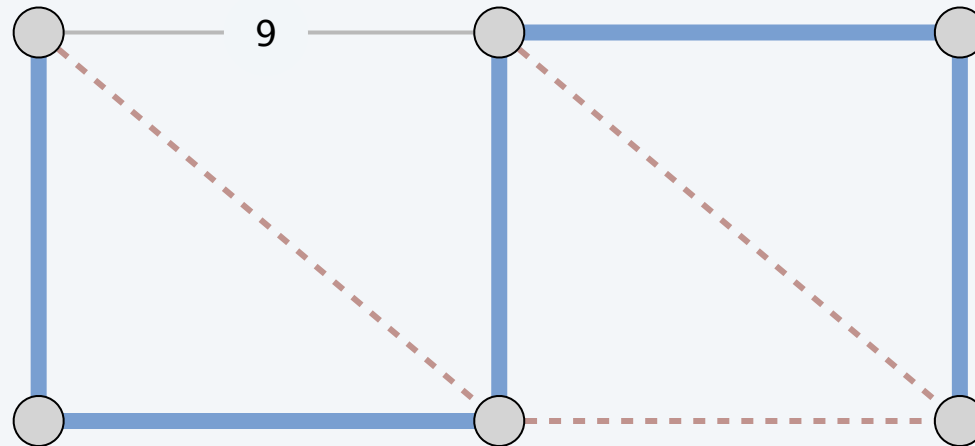


## Kruskal's algorithm demo

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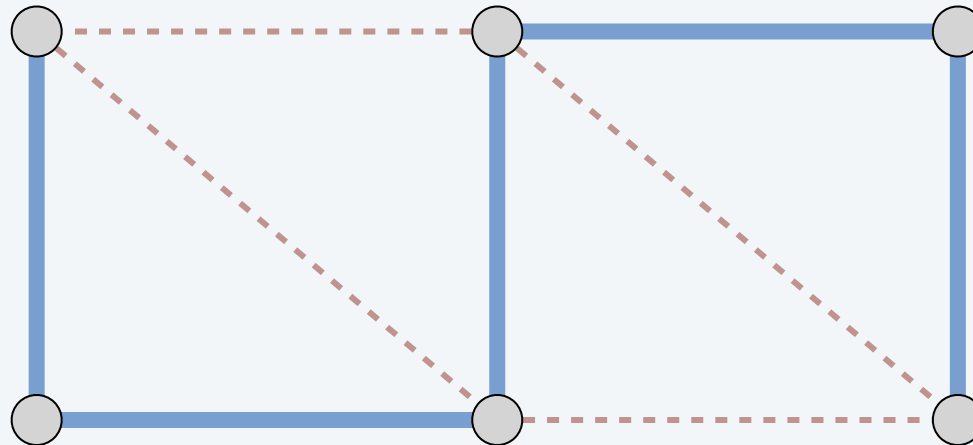


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