4. Greedy Algorithms II

- Prim's algorithm demo
Prim's algorithm demo

Initialize $S = \text{any node.}$
Repeat $n - 1$ times:
  • Add to tree the min weight edge with one endpoint in $S$.
  • Add new node to $S$. 

![Graph visualization of Prim's algorithm](image)
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![Graph with Prim's algorithm tree highlighted]
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![Prim's algorithm diagram]

1 6 8 13

11 10 9
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![Graph](image-url)
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![Diagram of Prim's algorithm](image-url)
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![Graph with weights](image-url)