Algorithms

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Algorithms

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Robert Sedgewick | Kevin Wayne

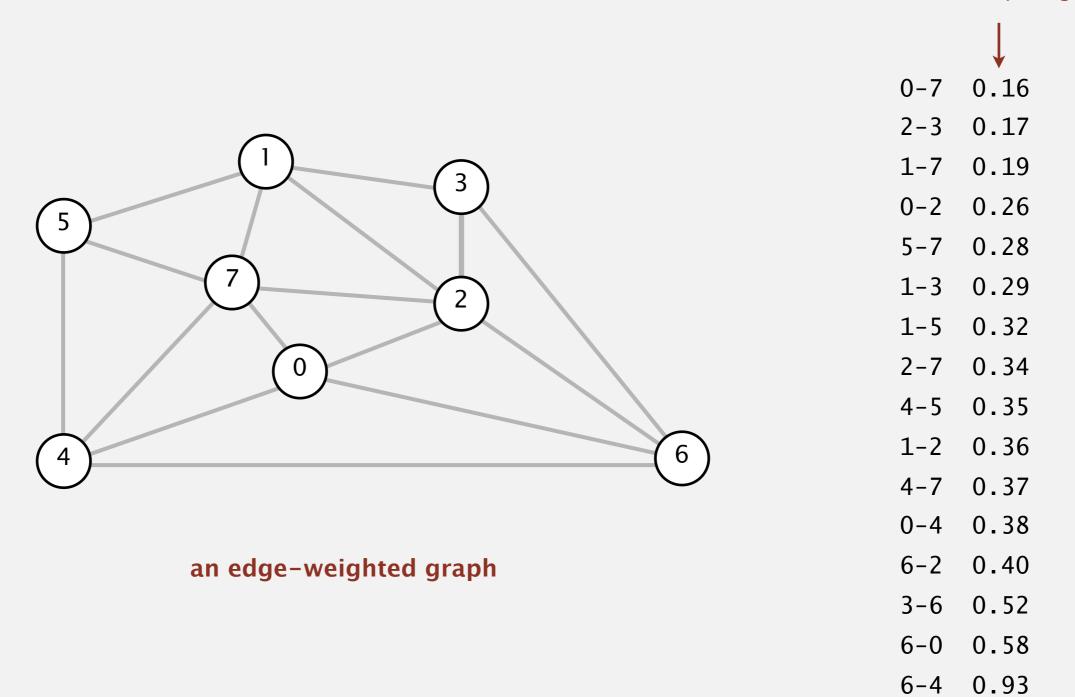
http://algs4.cs.princeton.edu

KRUSKAL'S ALGORITHM DEMO

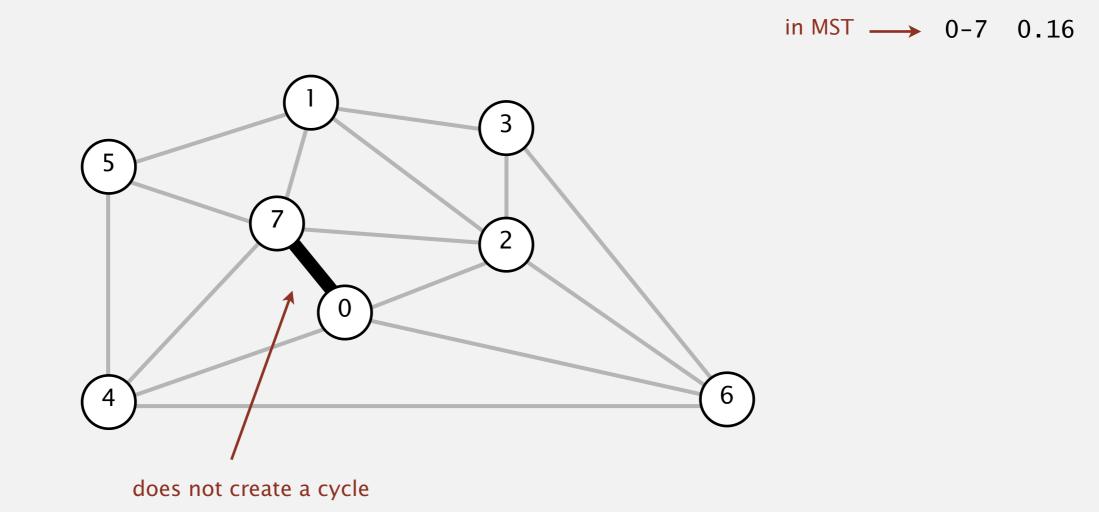
Consider edges in ascending order of weight.

• Add next edge to tree *T* unless doing so would create a cycle.

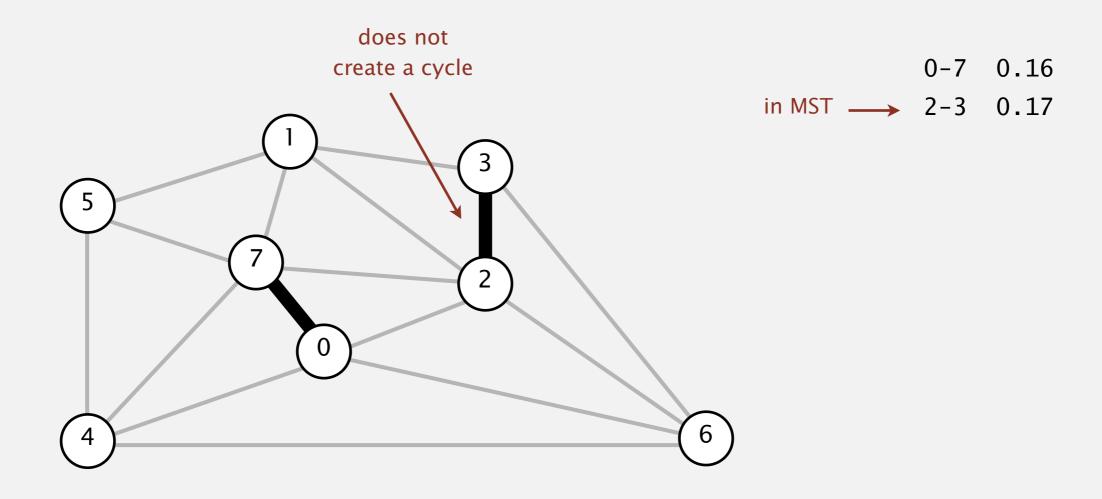
graph edges sorted by weight



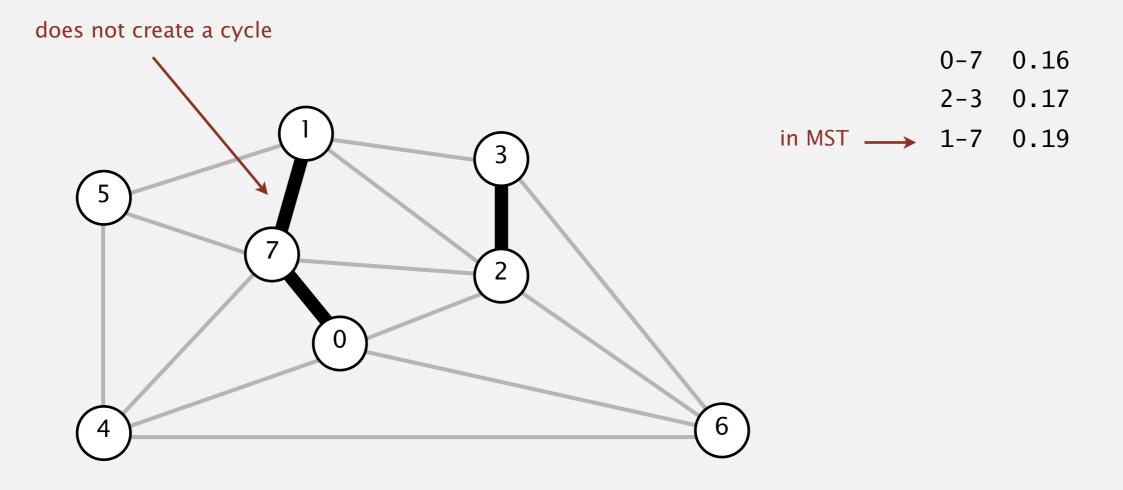
Consider edges in ascending order of weight.



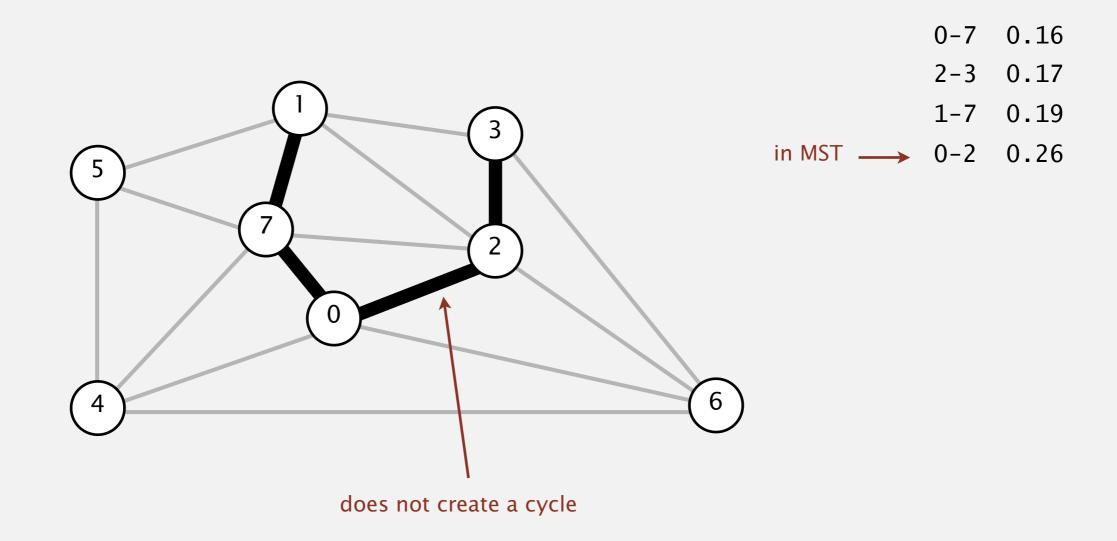
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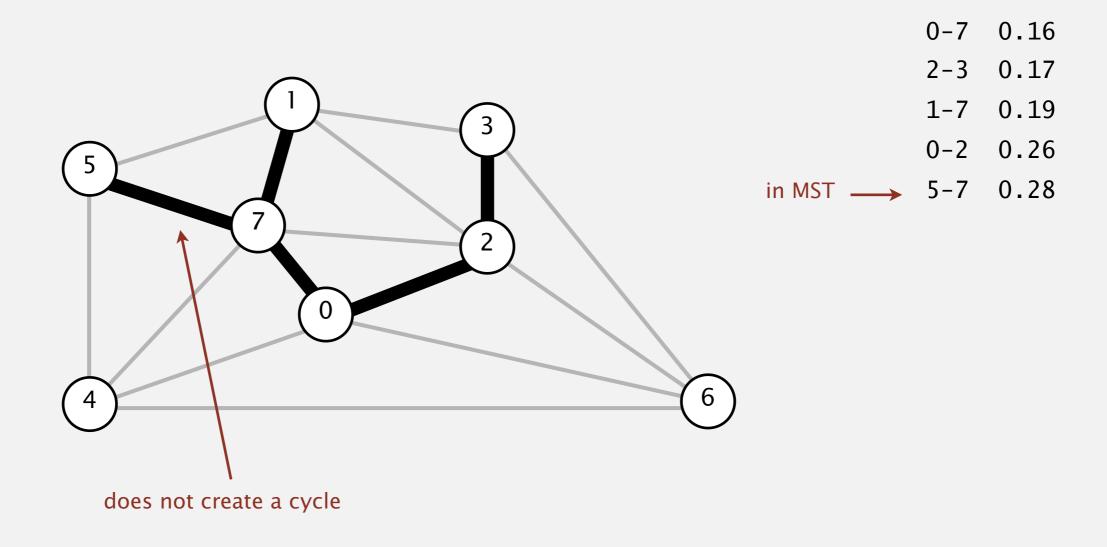
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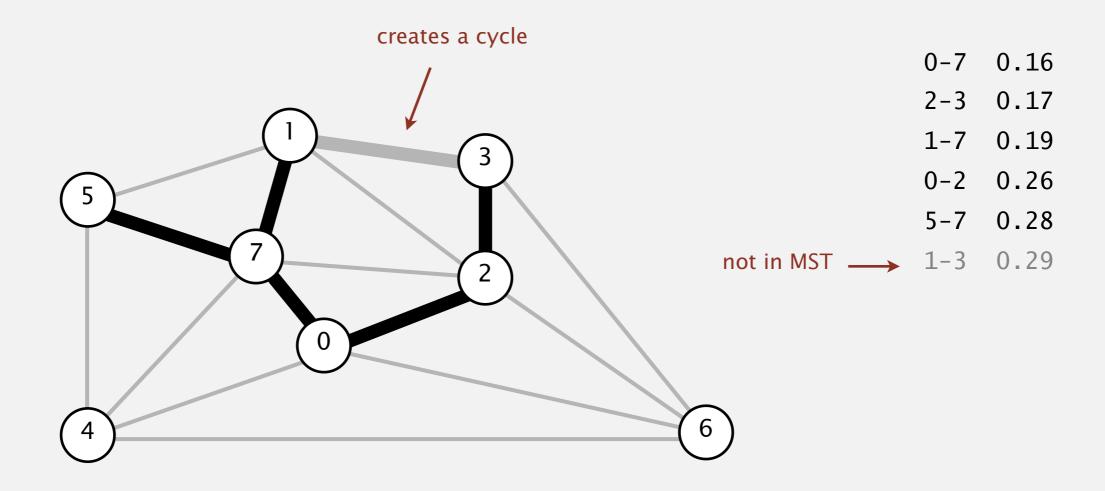
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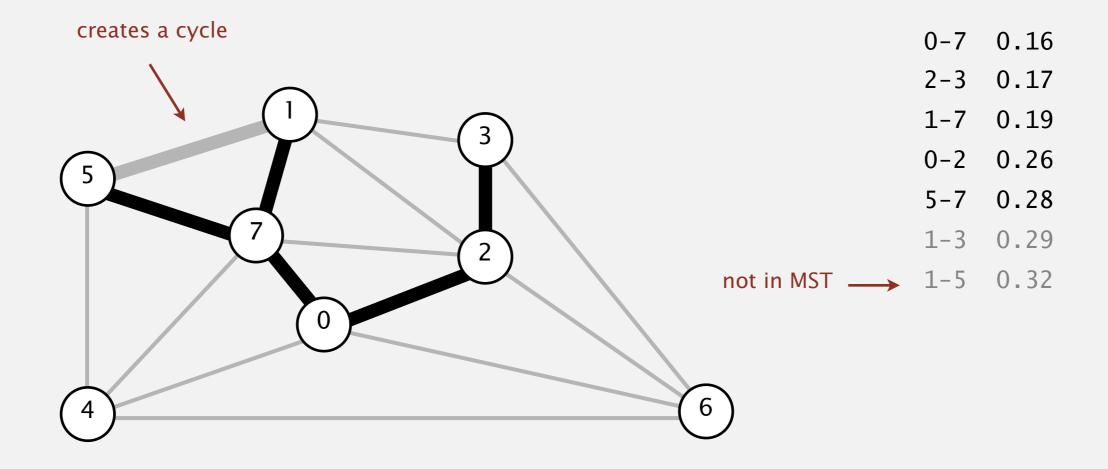
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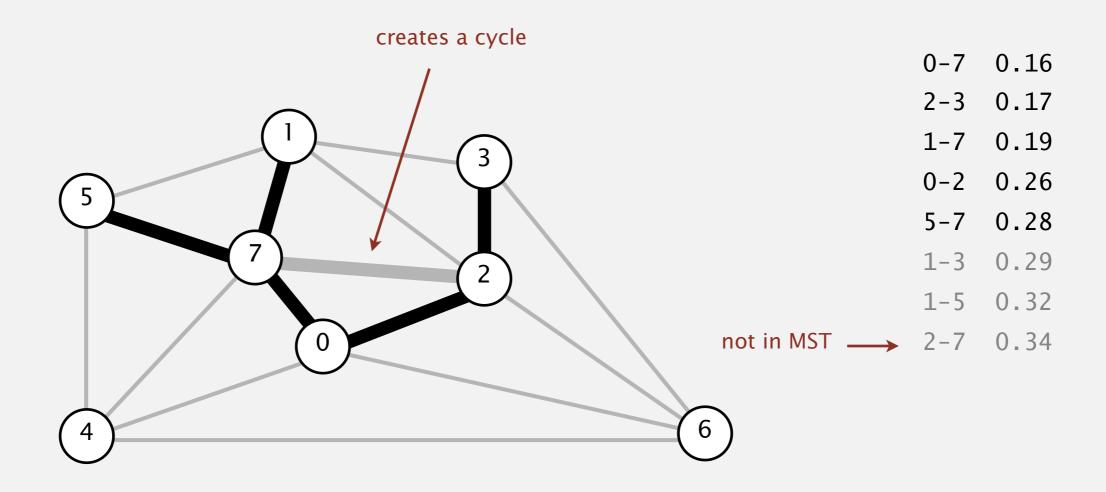
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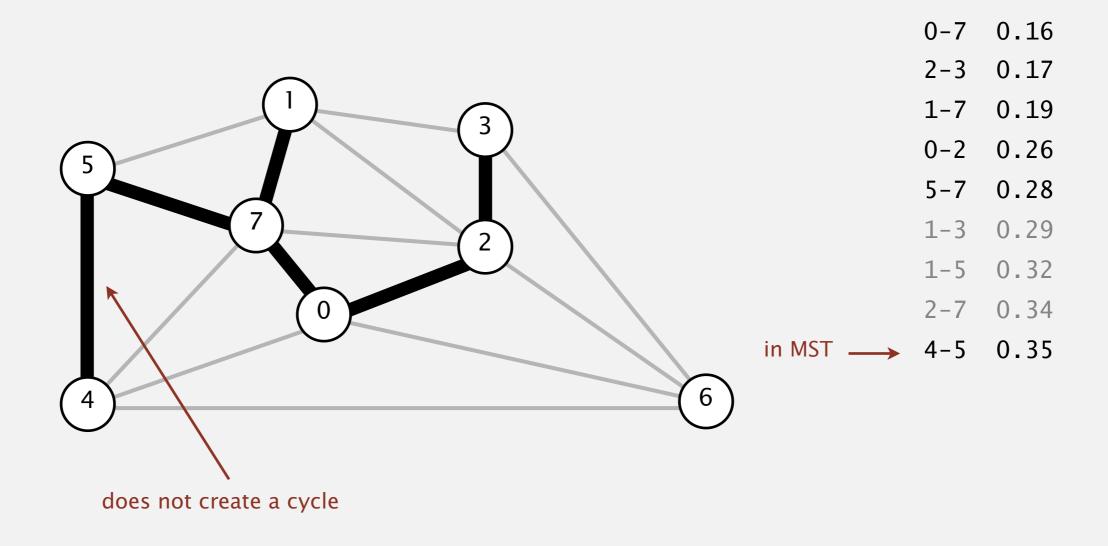
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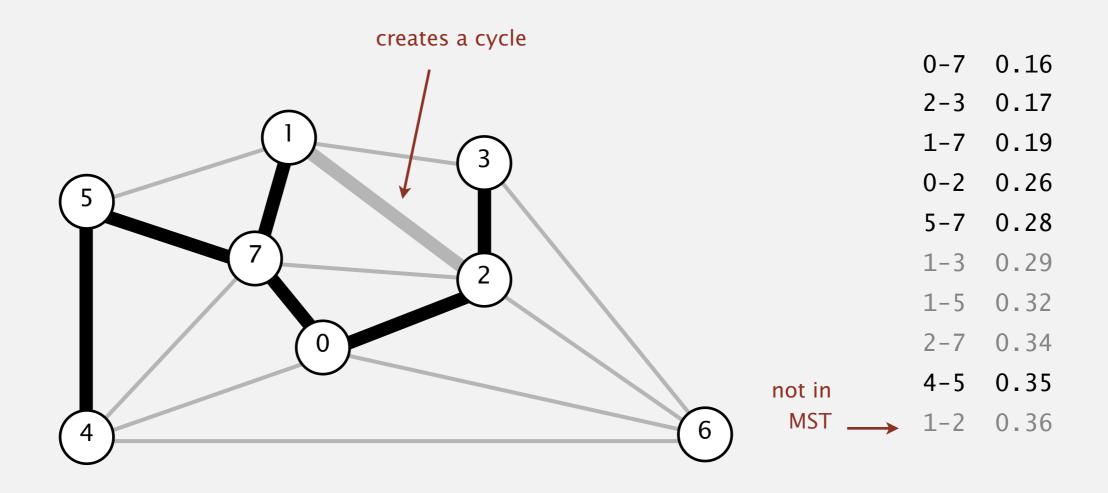
Consider edges in ascending order of weight.



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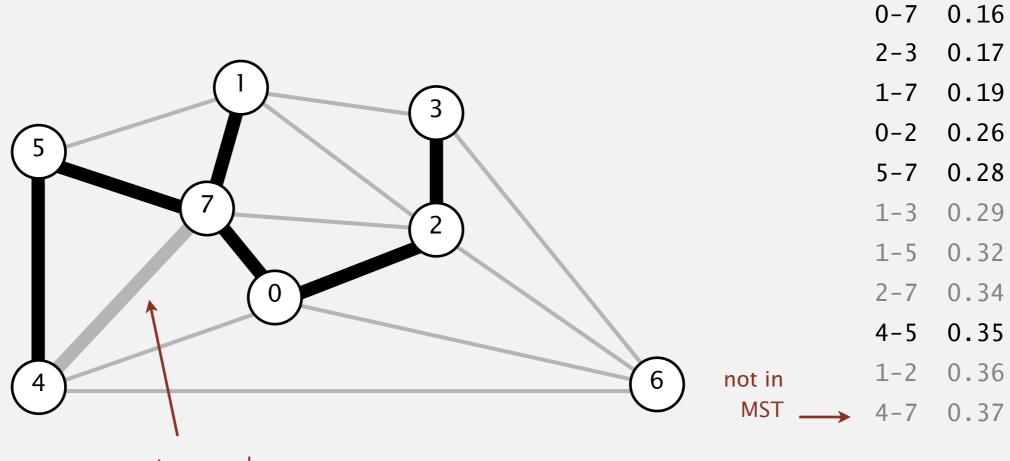


Consider edges in ascending order of weight.



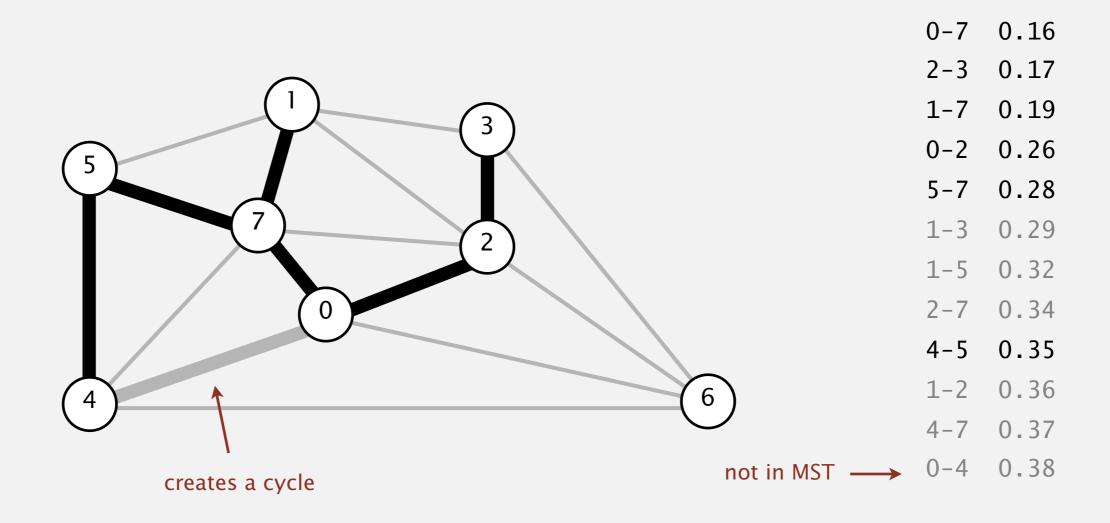
Consider edges in ascending order of weight.

• Add next edge to tree T unless doing so would create a cycle.

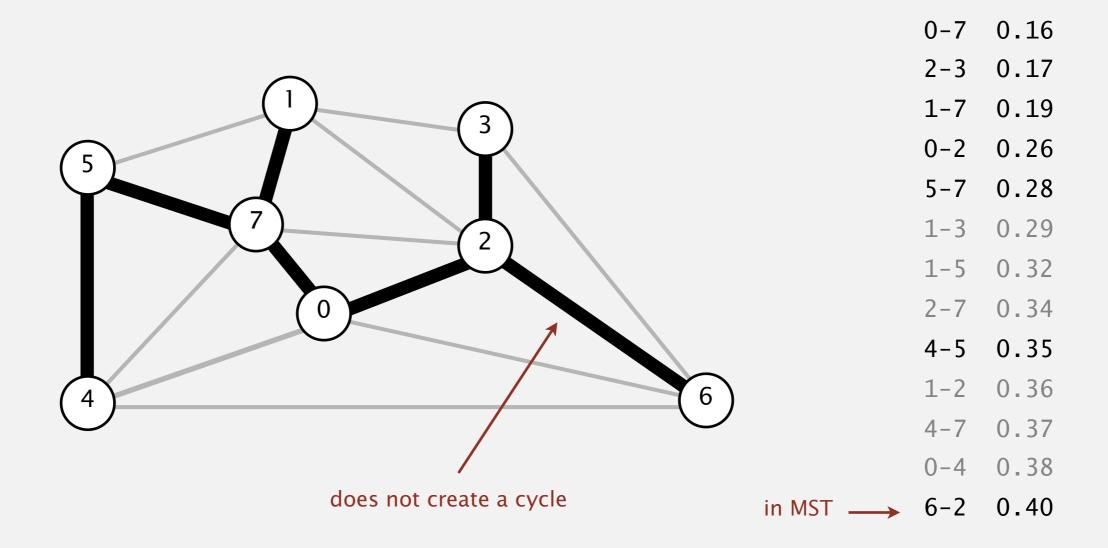


creates a cycle

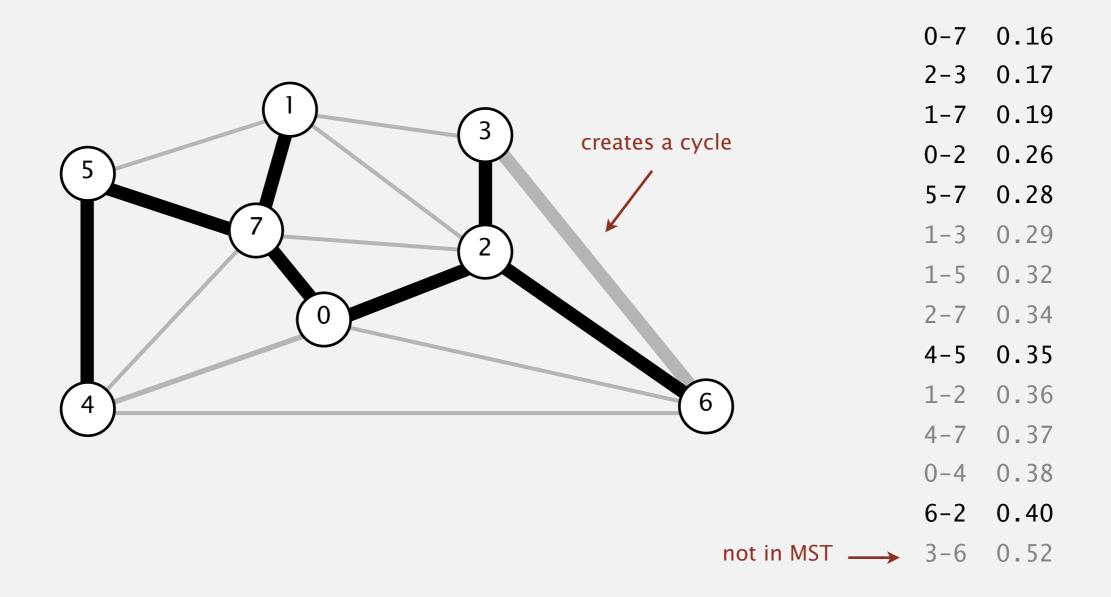
Consider edges in ascending order of weight.



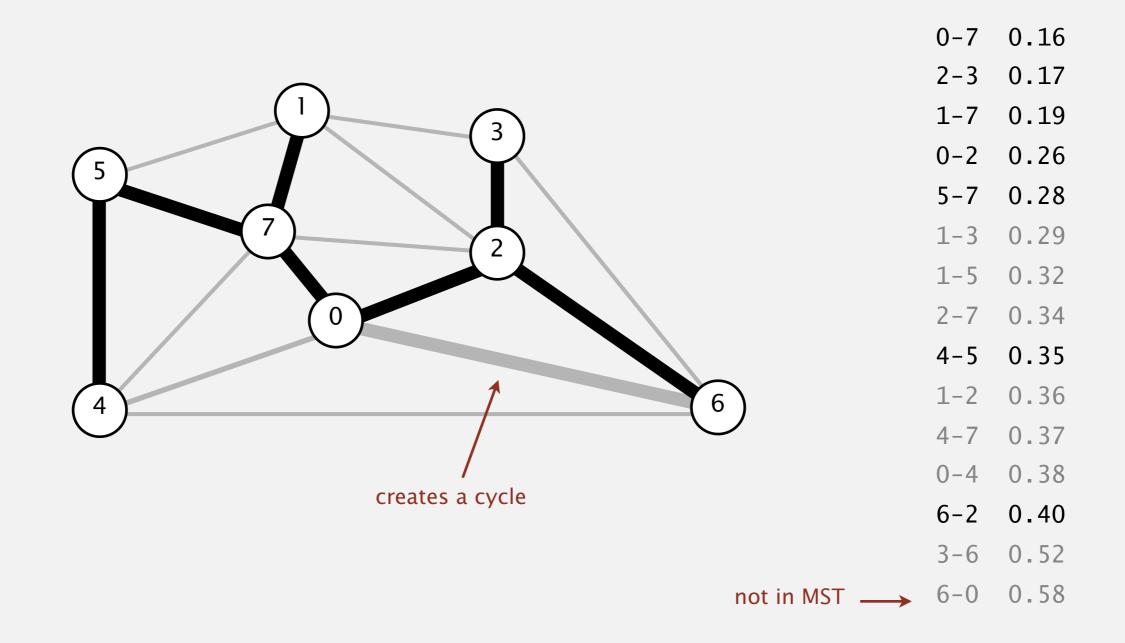
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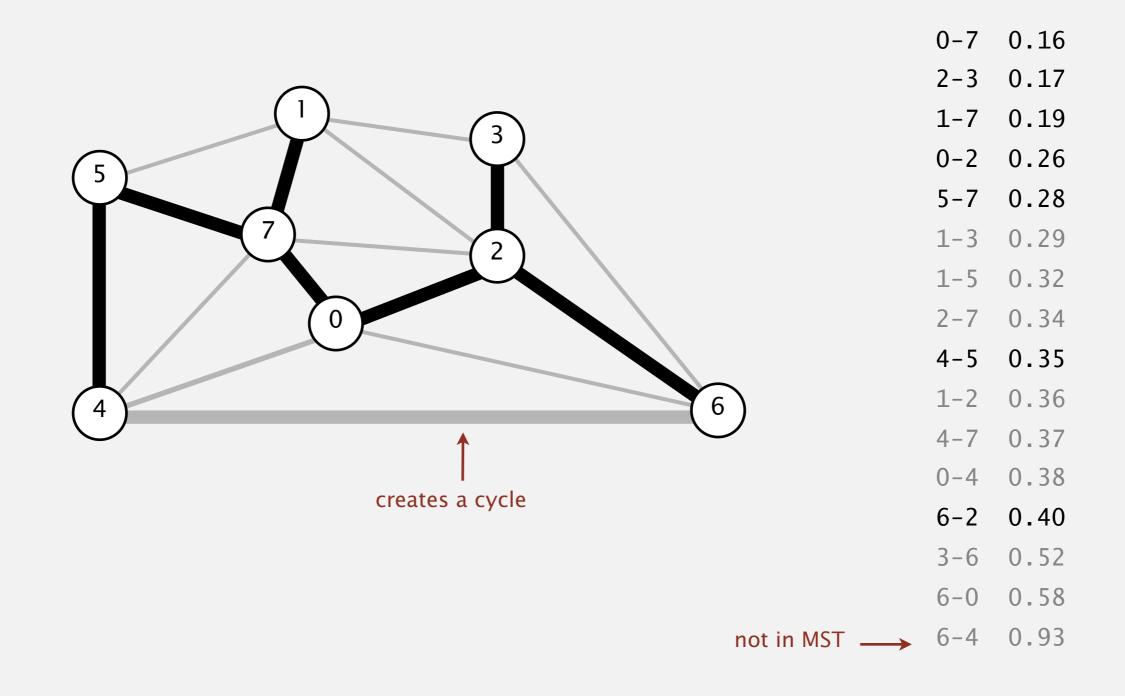
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