

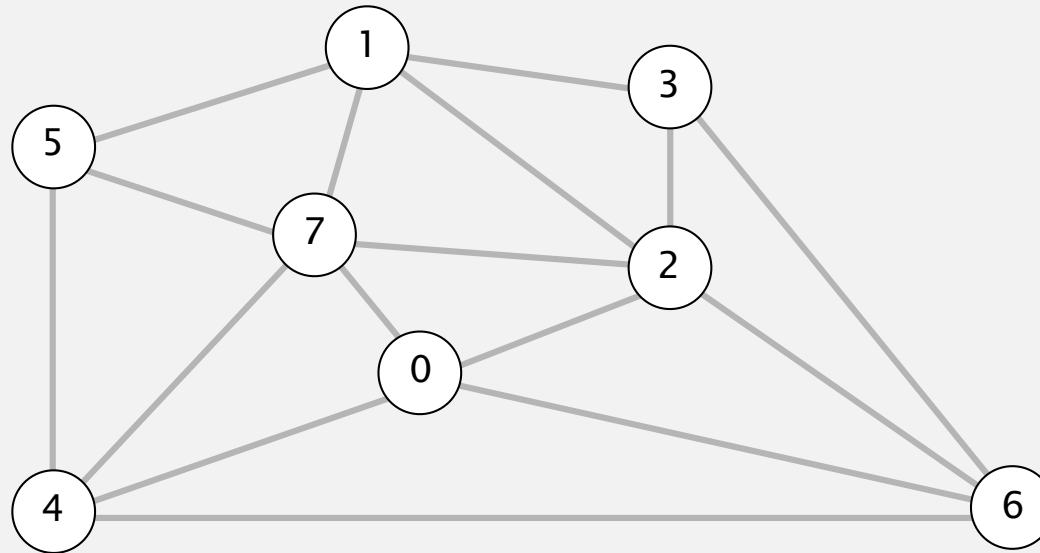


<http://algs4.cs.princeton.edu>

4.3 GREEDY MST DEMO

Greedy MST algorithm demo

- Start with all edges colored gray.
- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until $V - 1$ edges are colored black.

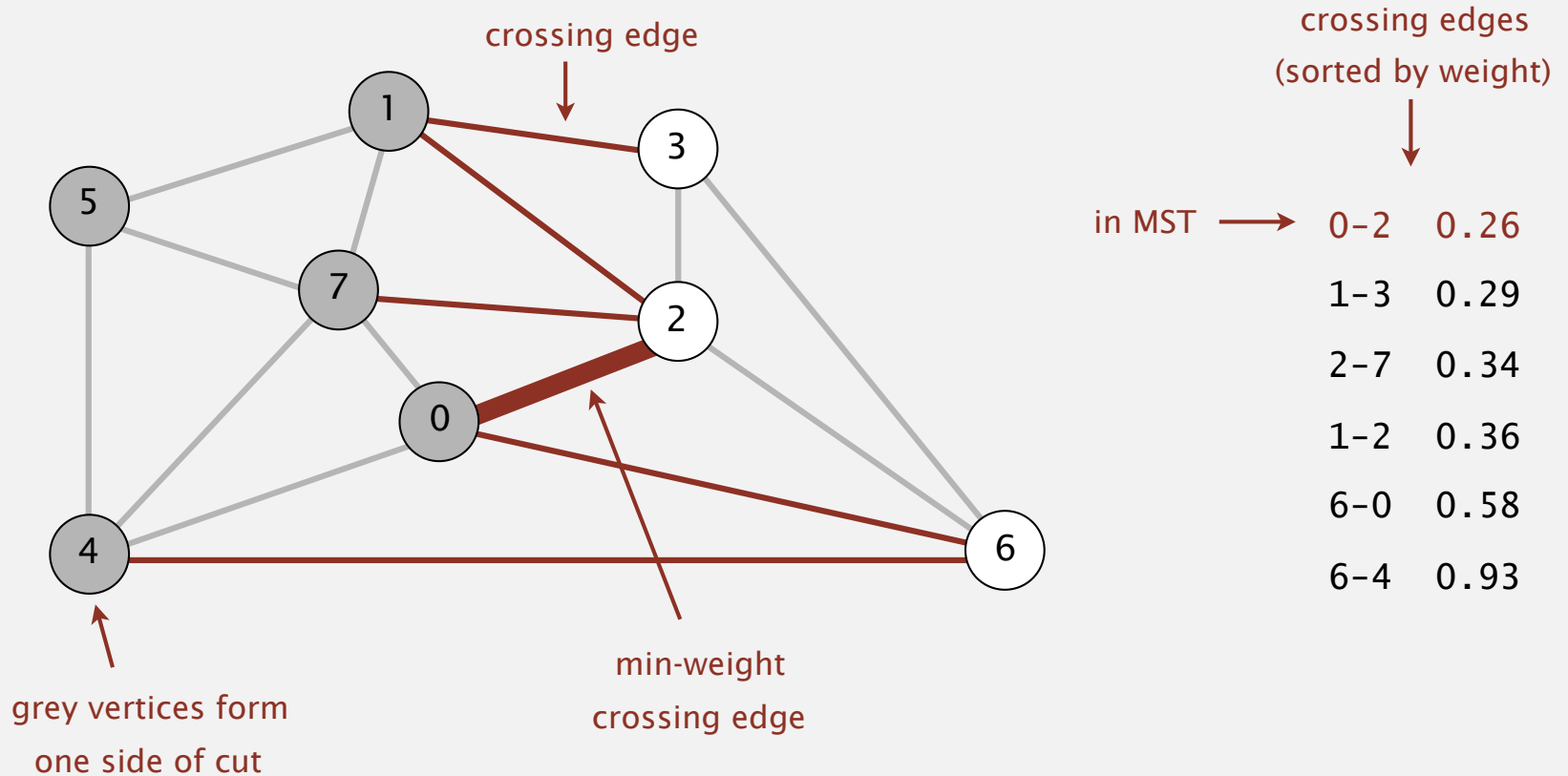


an edge-weighted graph

0-7	0.16
2-3	0.17
1-7	0.19
0-2	0.26
5-7	0.28
1-3	0.29
1-5	0.32
2-7	0.34
4-5	0.35
1-2	0.36
4-7	0.37
0-4	0.38
6-2	0.40
3-6	0.52
6-0	0.58
6-4	0.93

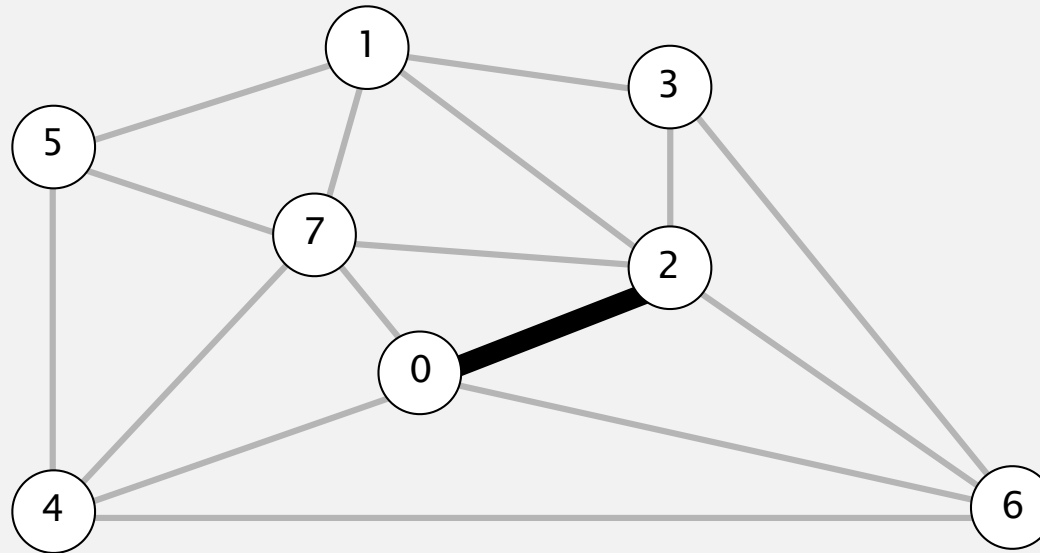
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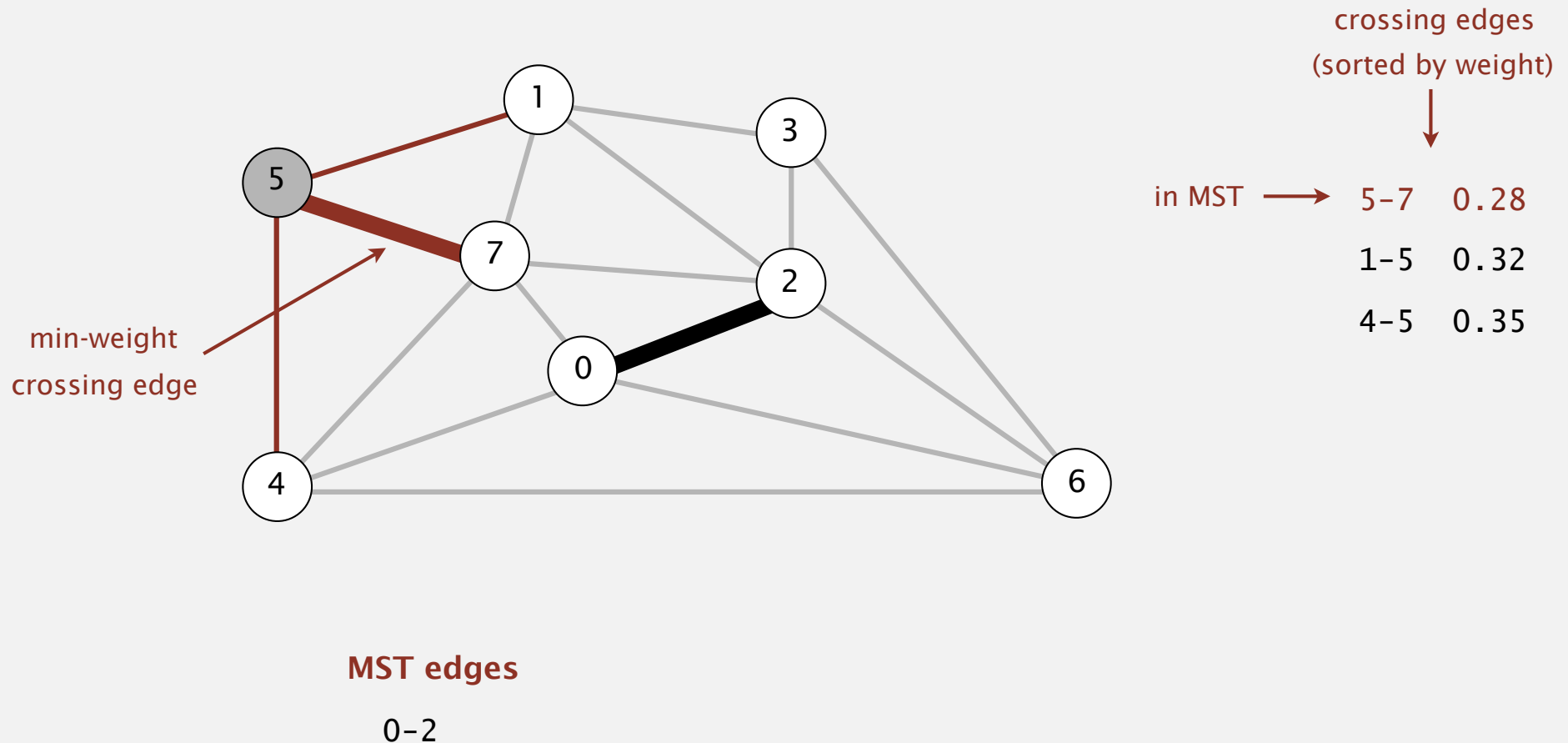


MST edges

0-2

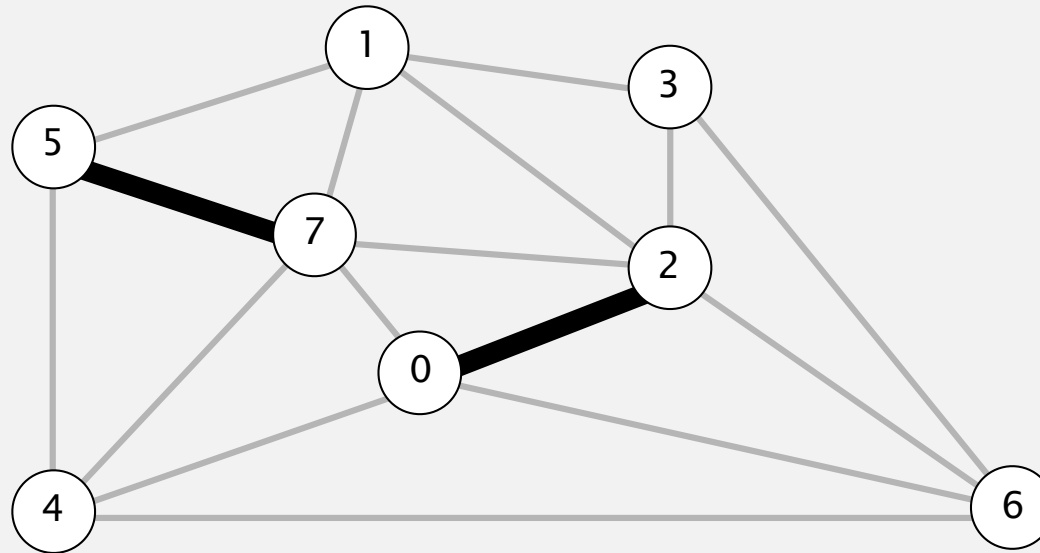
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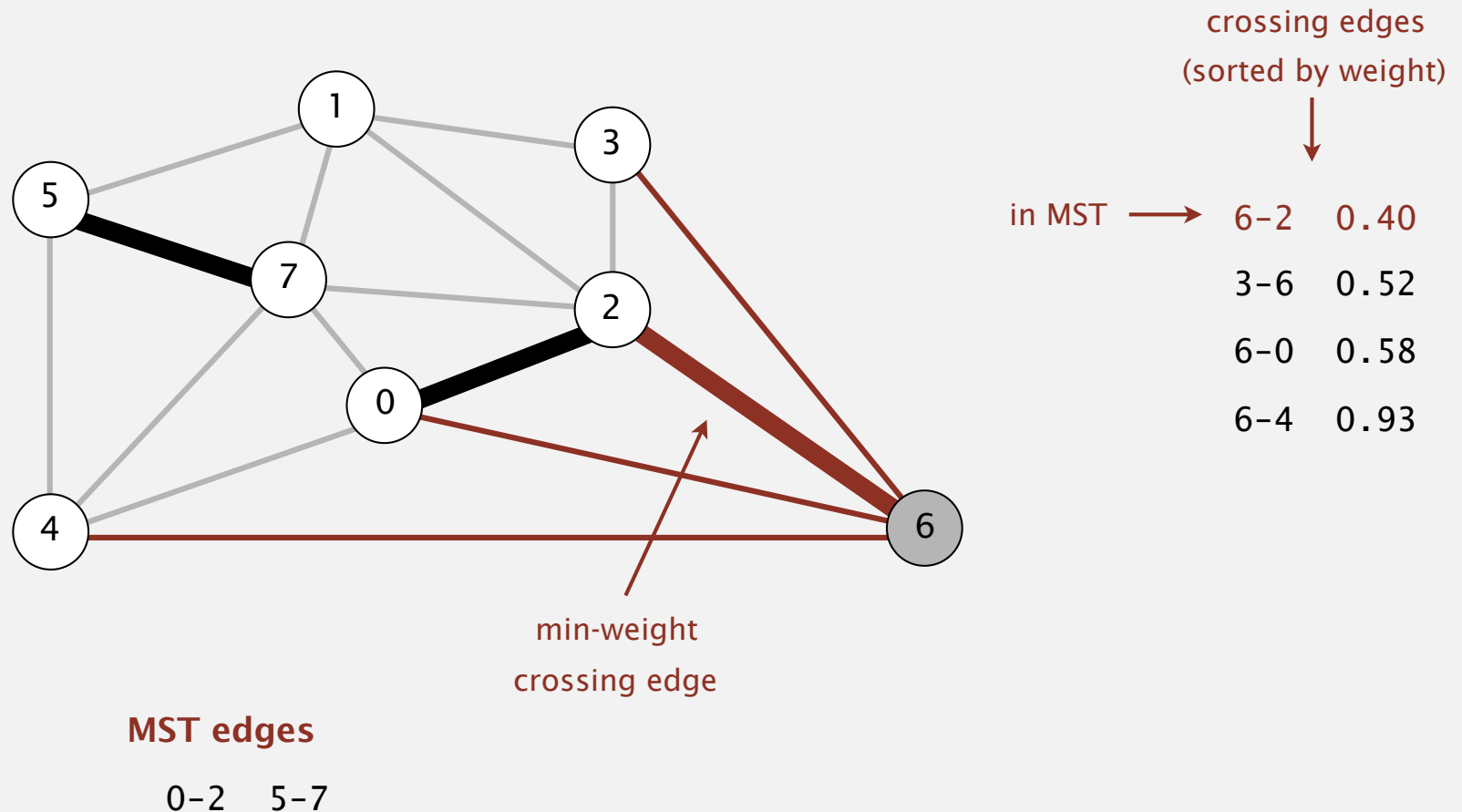


MST edges

0-2 5-7

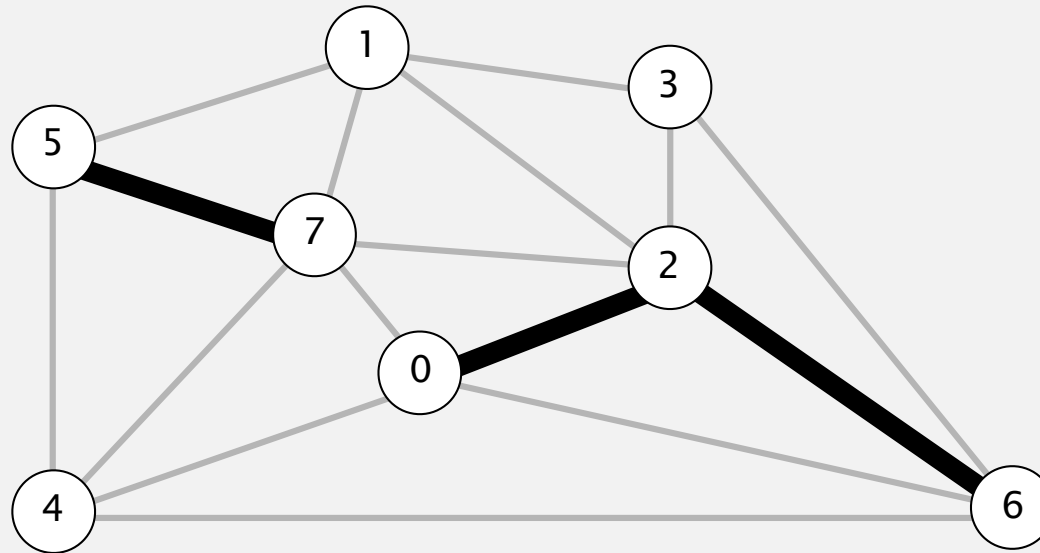
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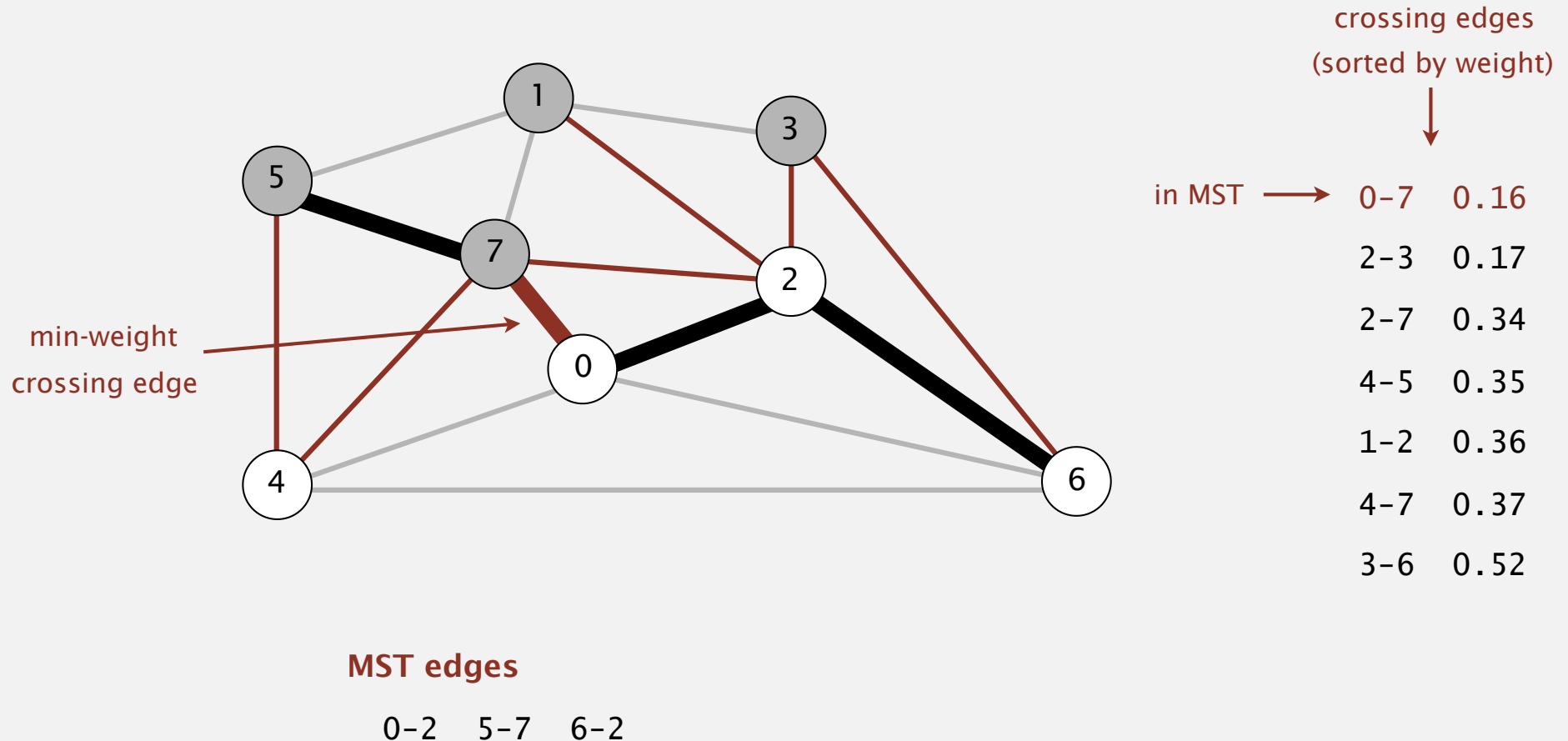


MST edges

0-2 5-7 6-2

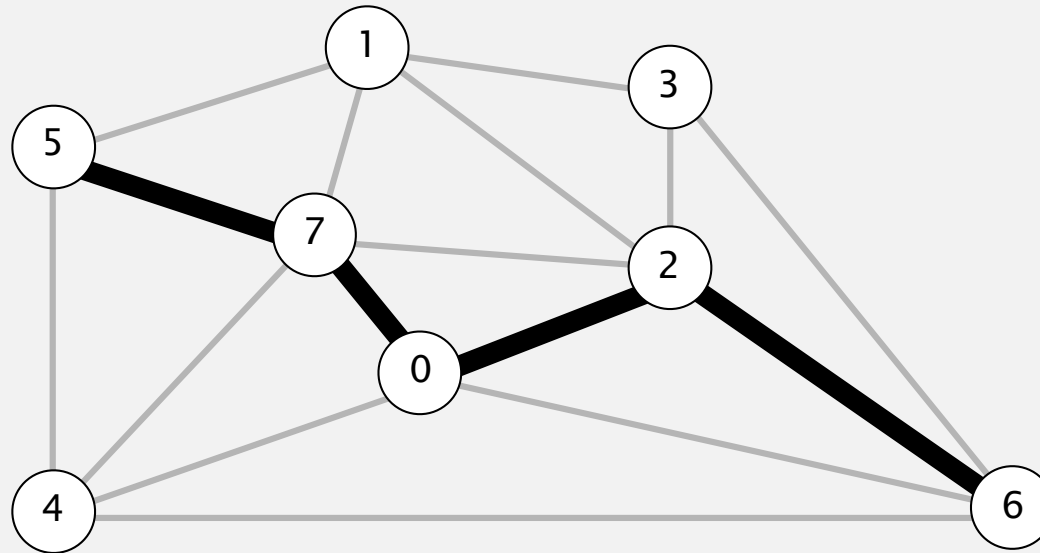
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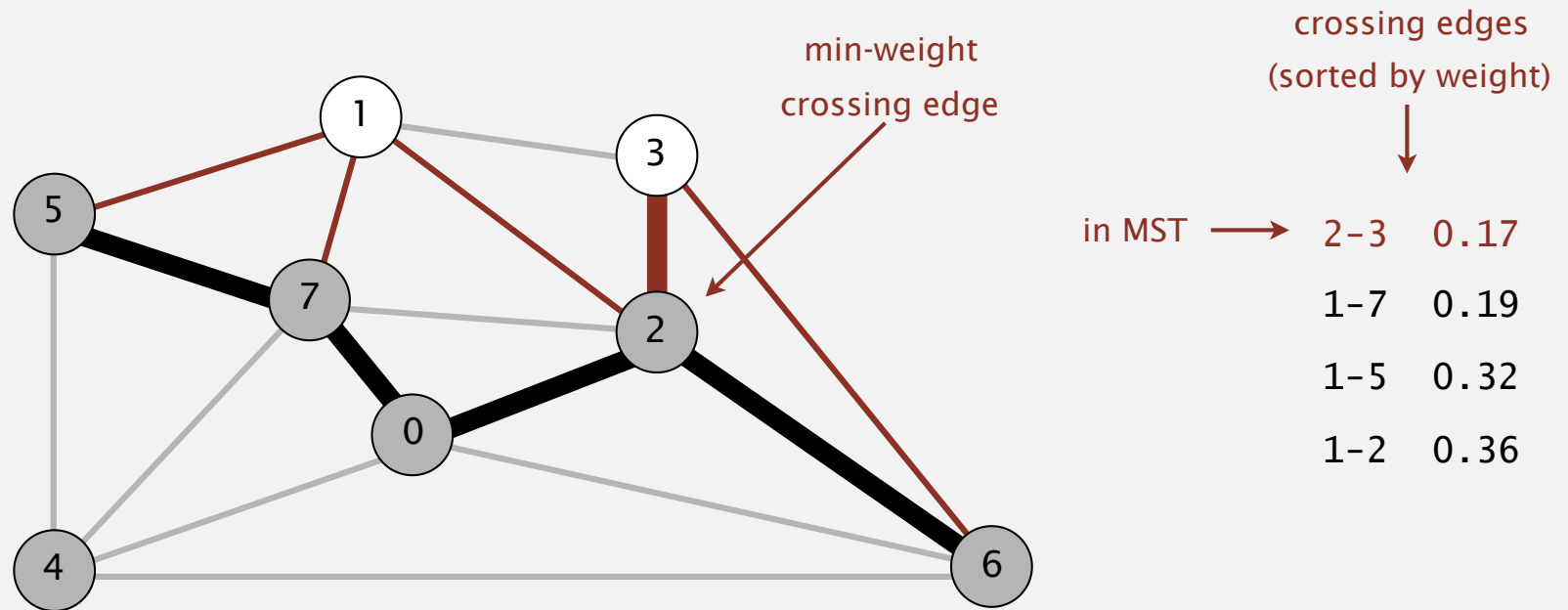


MST edges

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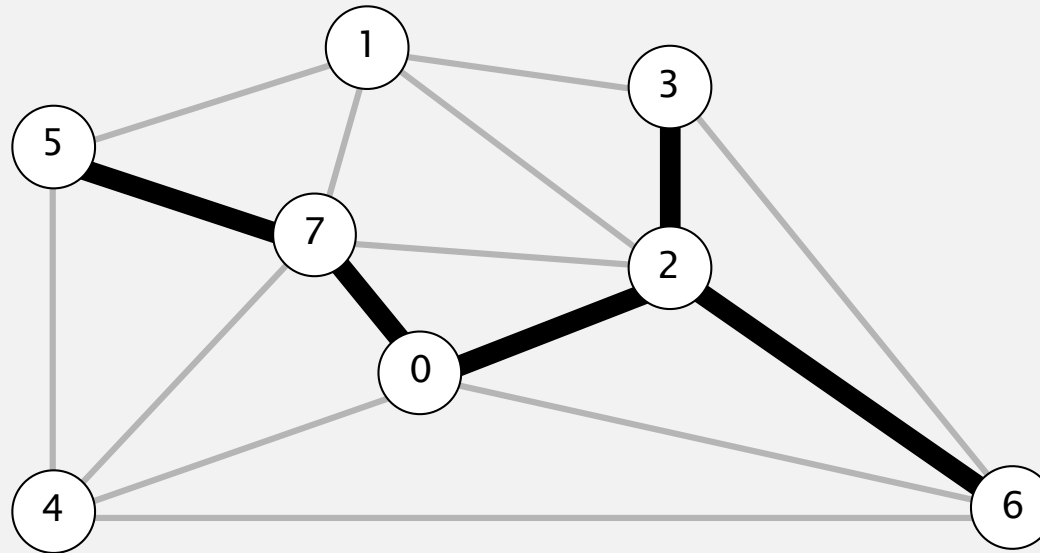


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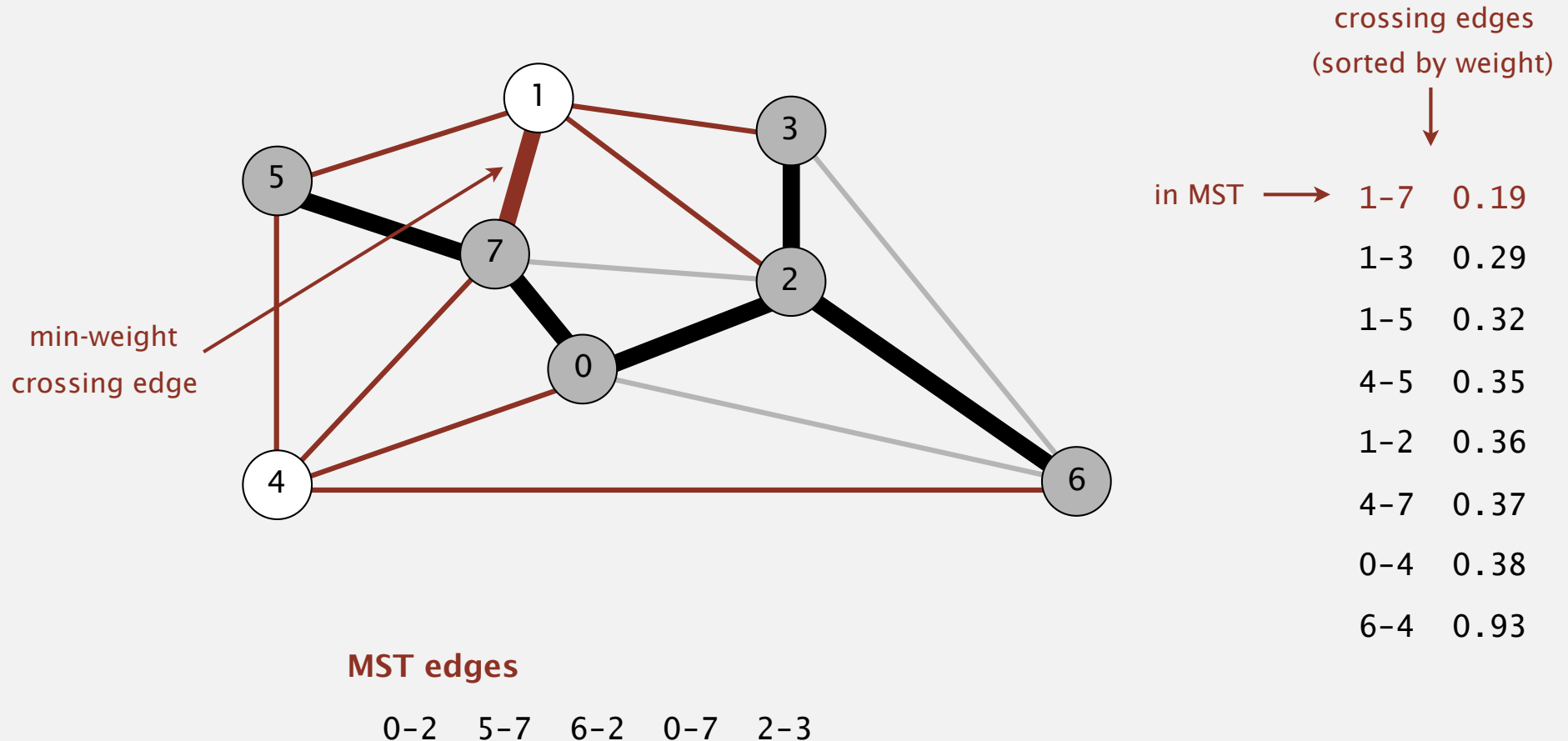


MST edges

0-2 5-7 6-2 0-7 2-3

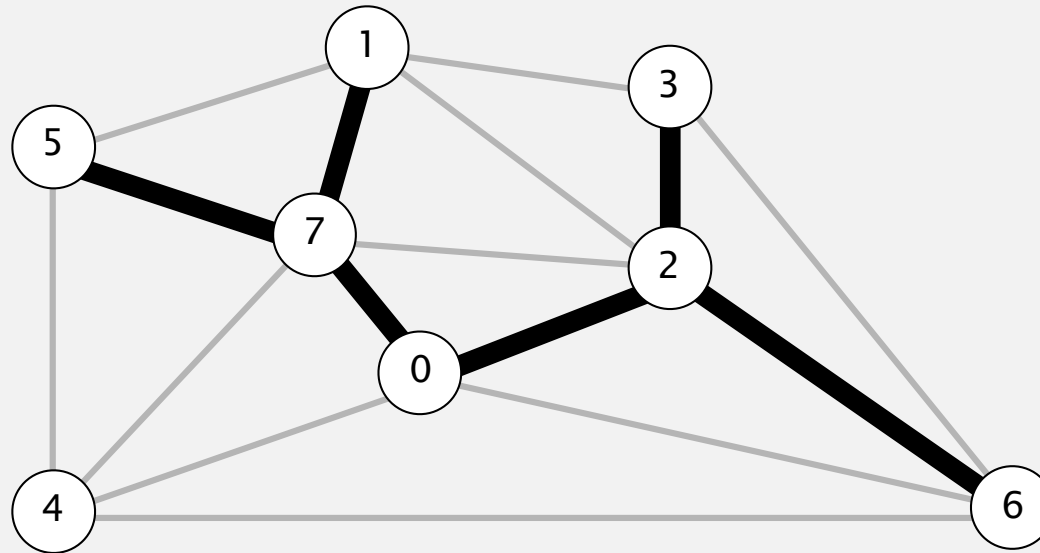
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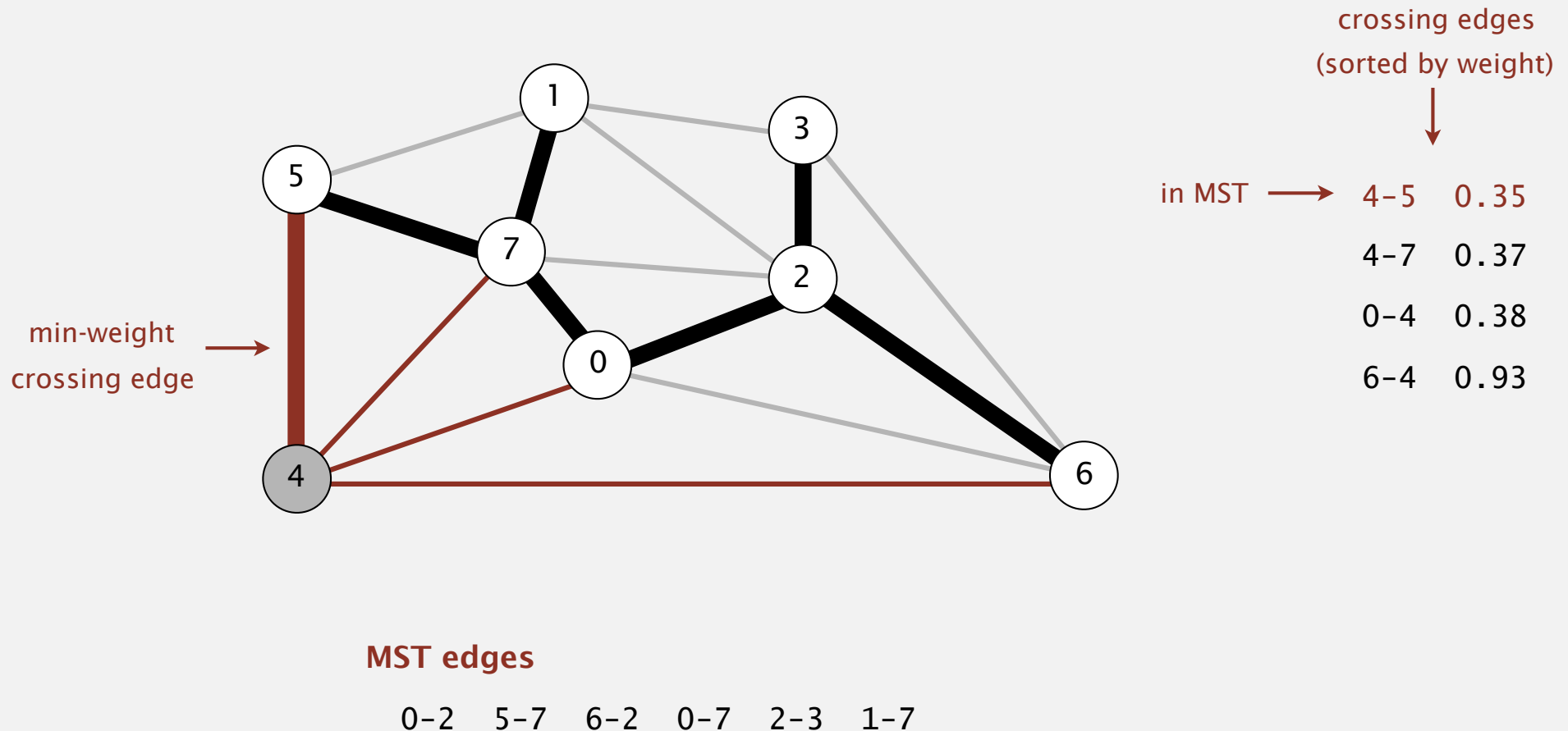


MST edges

0-2 5-7 6-2 0-7 2-3 1-7

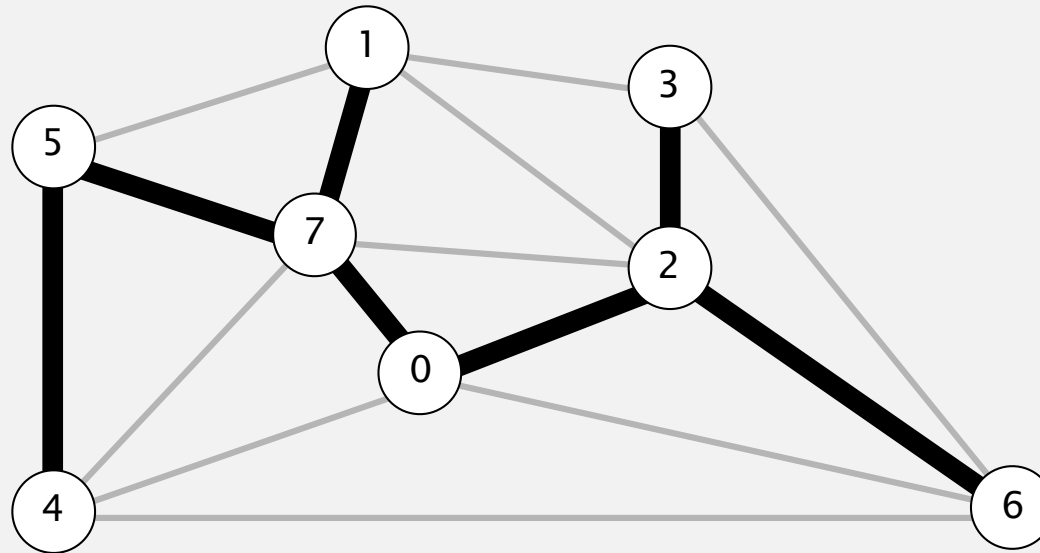
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MST edges

0-2 5-7 6-2 0-7 2-3 1-7 4-5