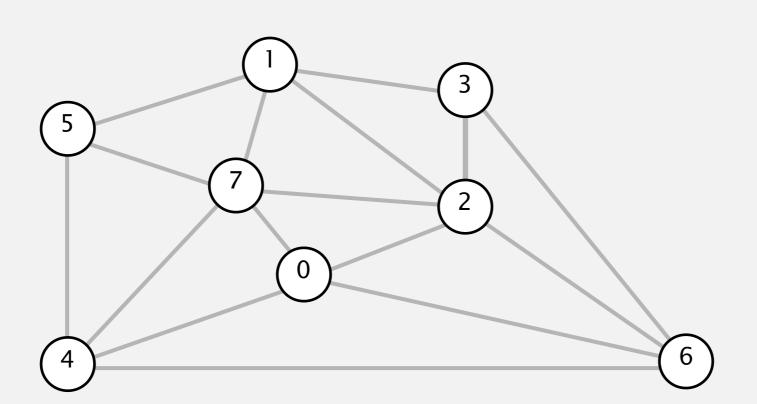


KRUSKAL'S ALGORITHM DEMO

Last updated on 11/12/19 3:53 AM

Consider edges in ascending order of weight.

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



an edge-weighted graph

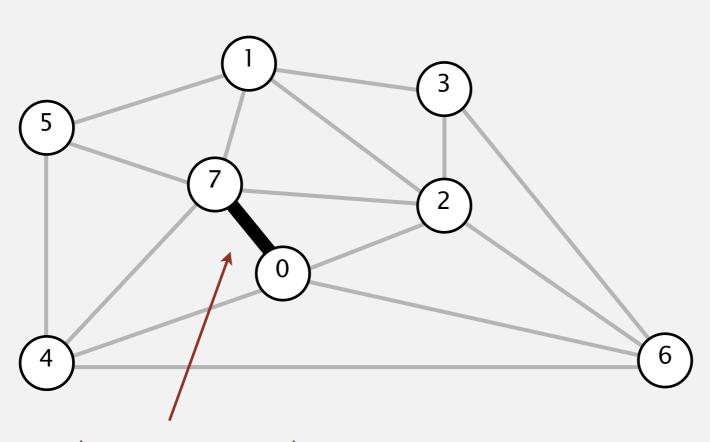
graph edges sorted by weight



- 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

Consider edges in ascending order of weight.

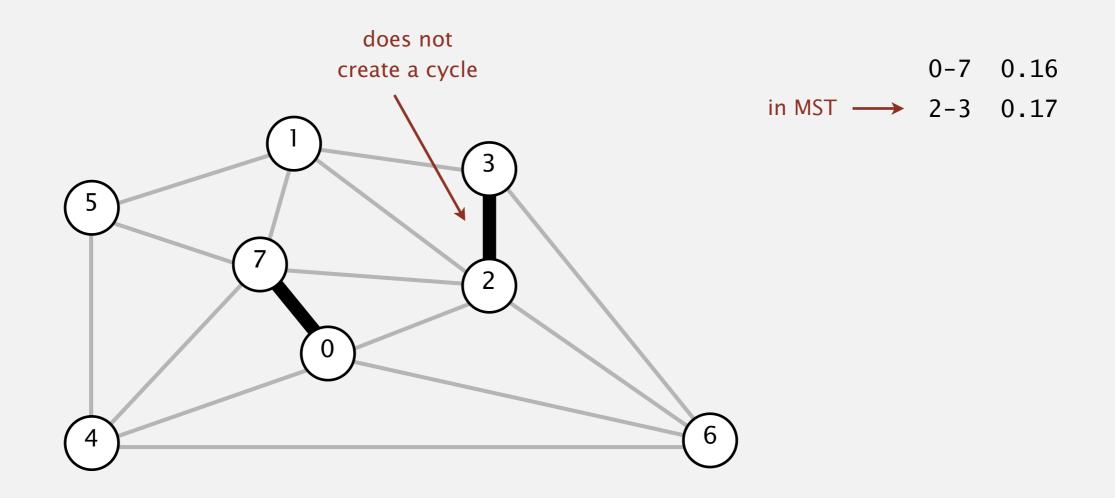
Add next edge to T unless doing so would create a cycle.



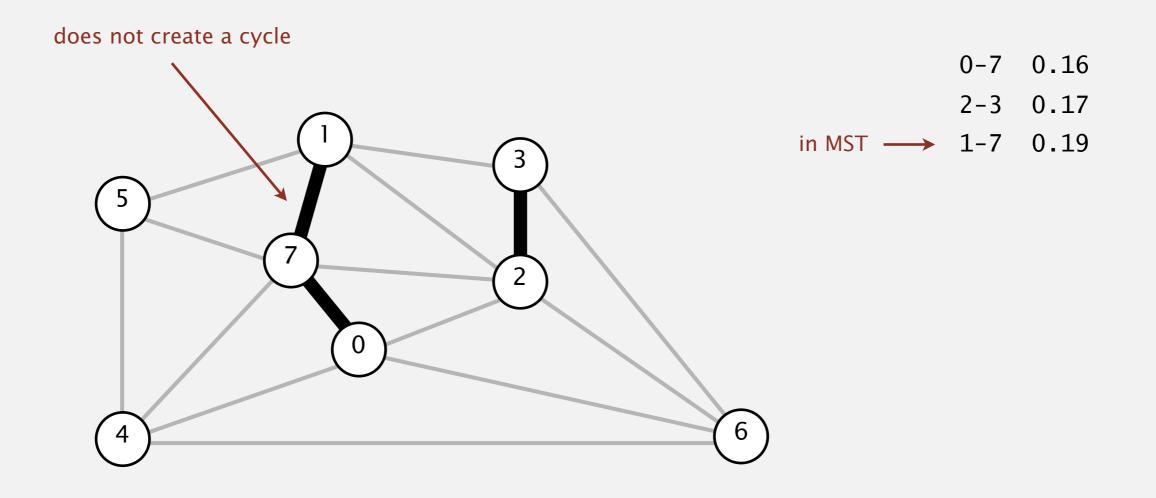
in MST \longrightarrow 0-7 0.16

does not create a cycle

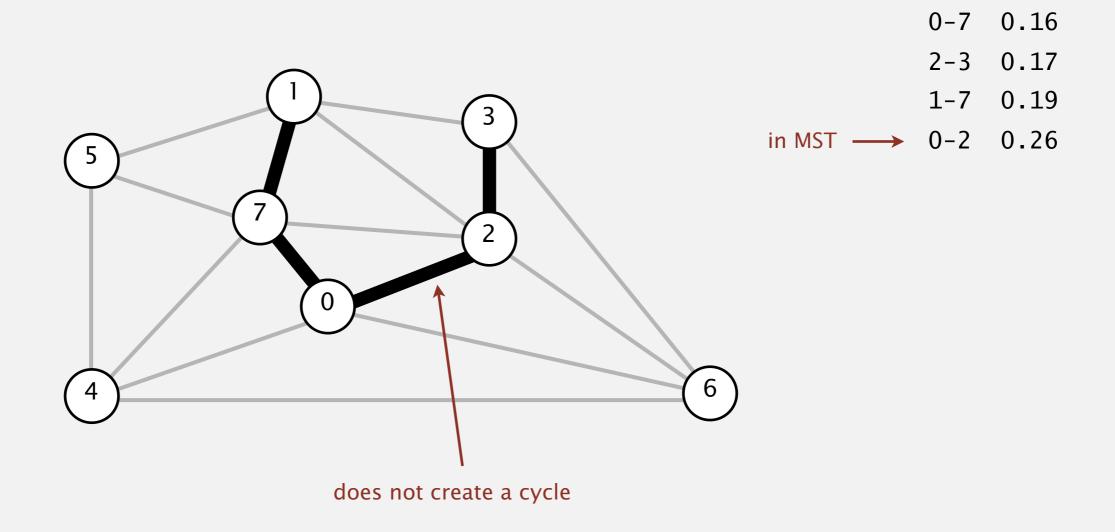
Consider edges in ascending order of weight.



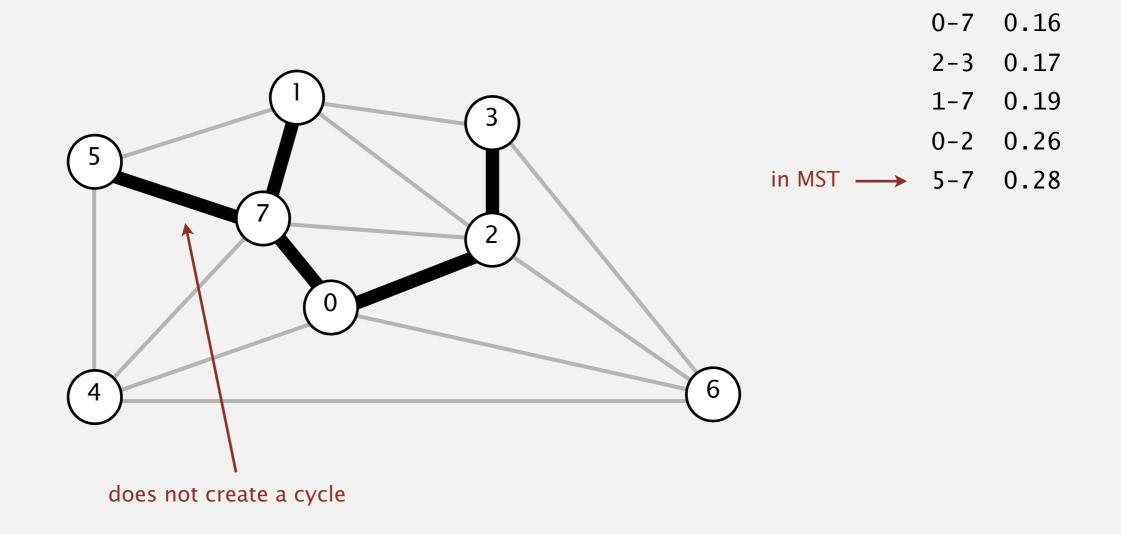
Consider edges in ascending order of weight.



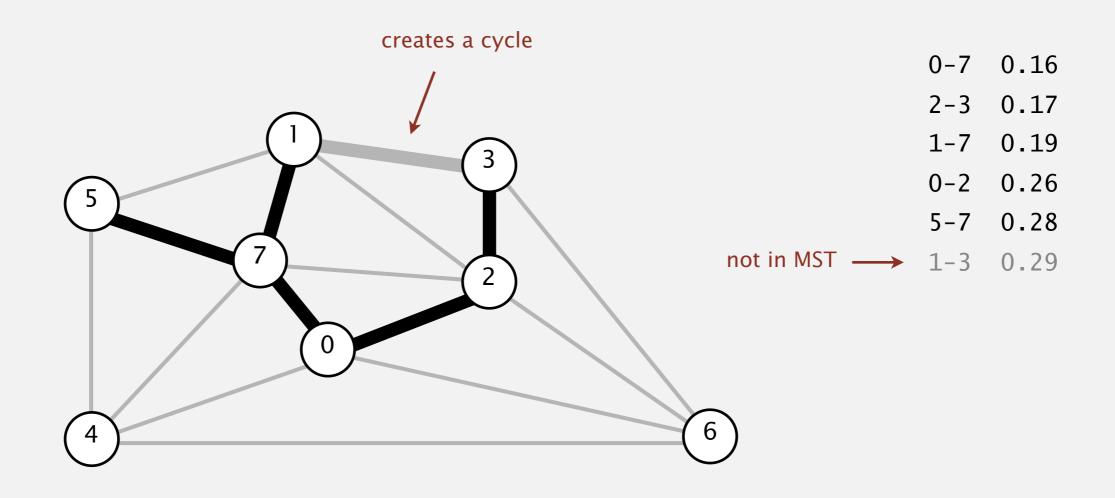
Consider edges in ascending order of weight.



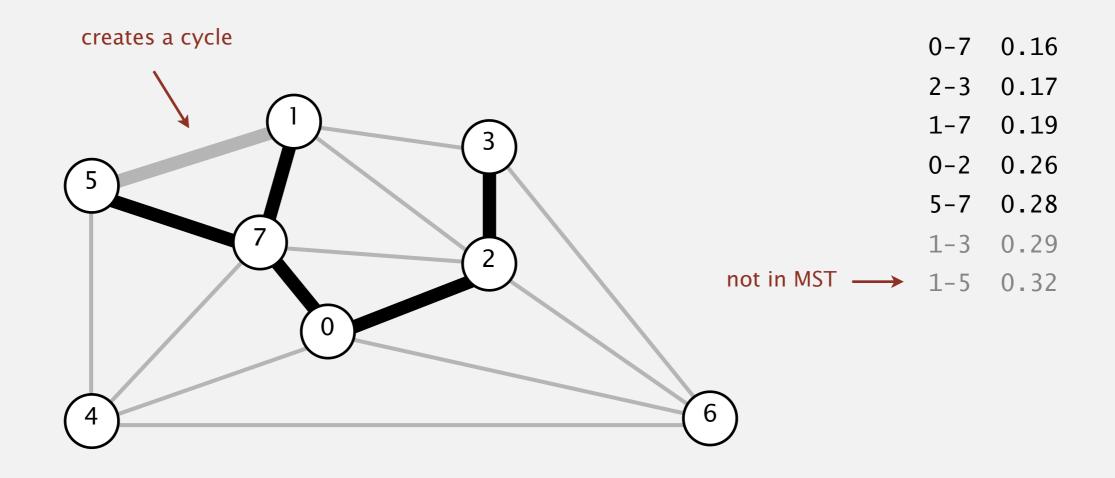
Consider edges in ascending order of weight.



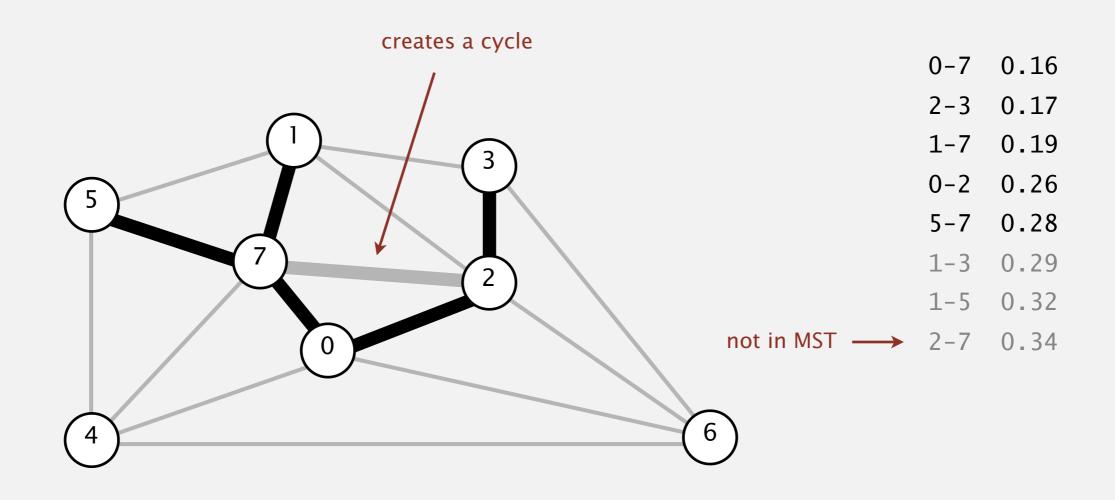
Consider edges in ascending order of weight.



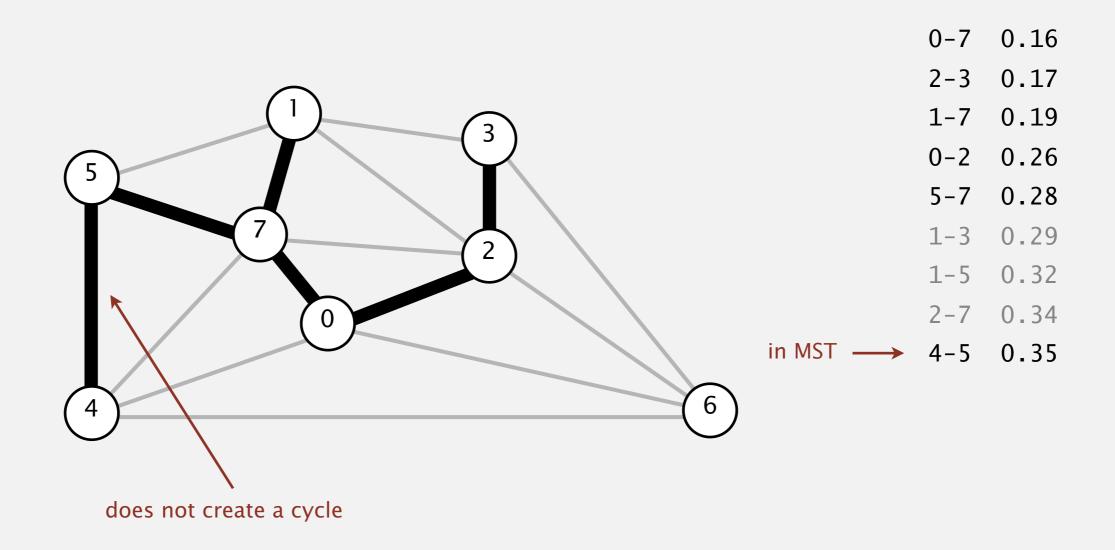
Consider edges in ascending order of weight.



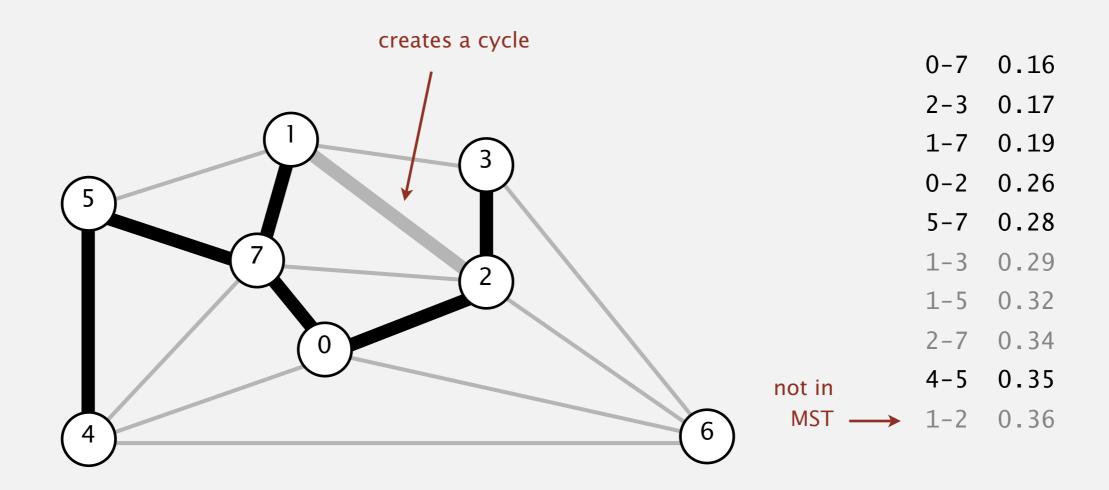
Consider edges in ascending order of weight.



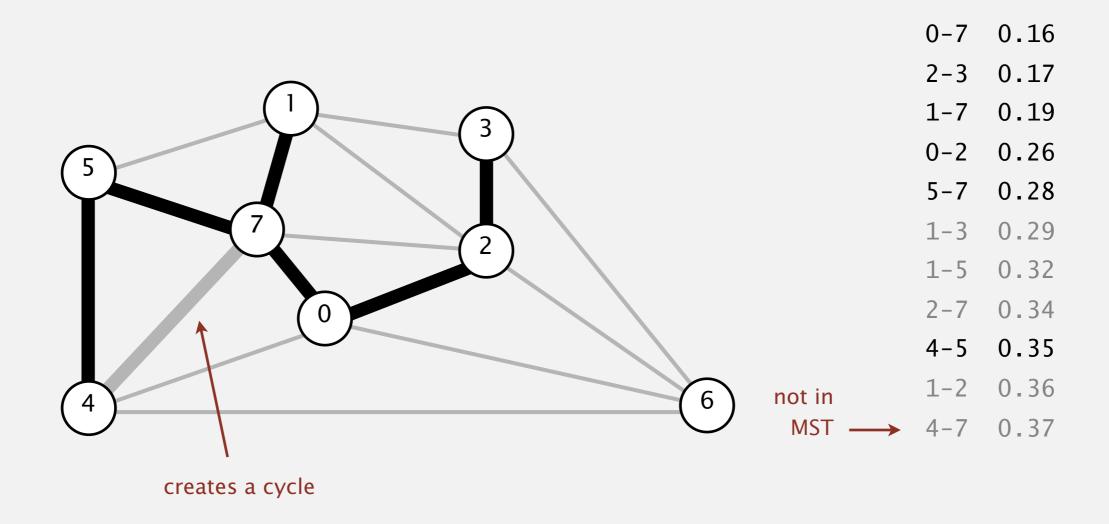
Consider edges in ascending order of weight.



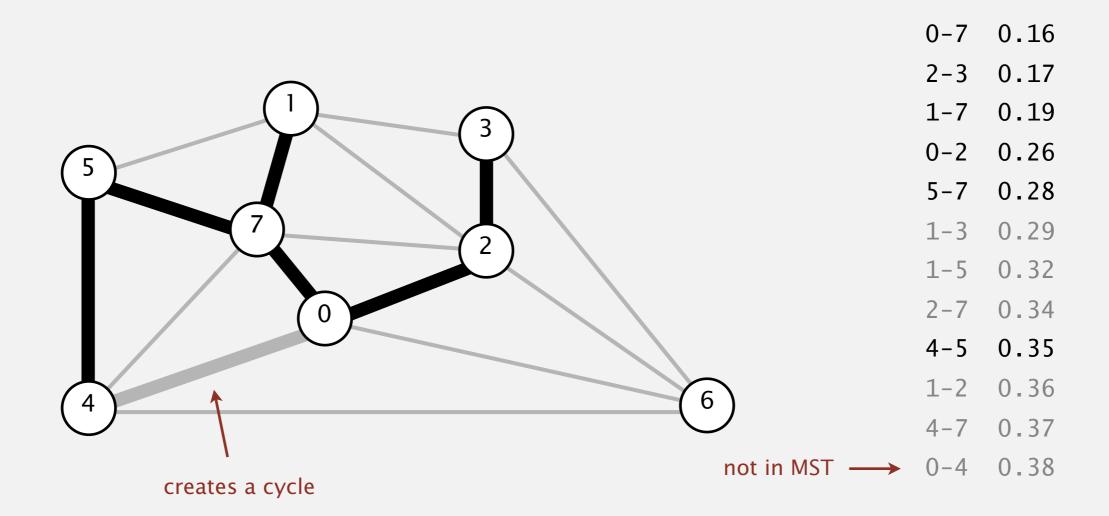
Consider edges in ascending order of weight.



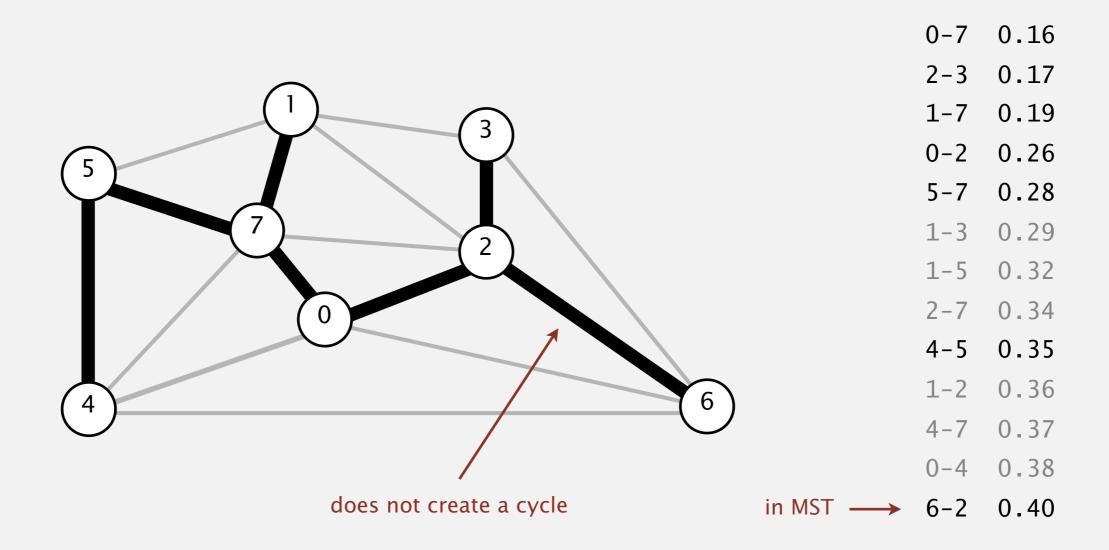
Consider edges in ascending order of weight.



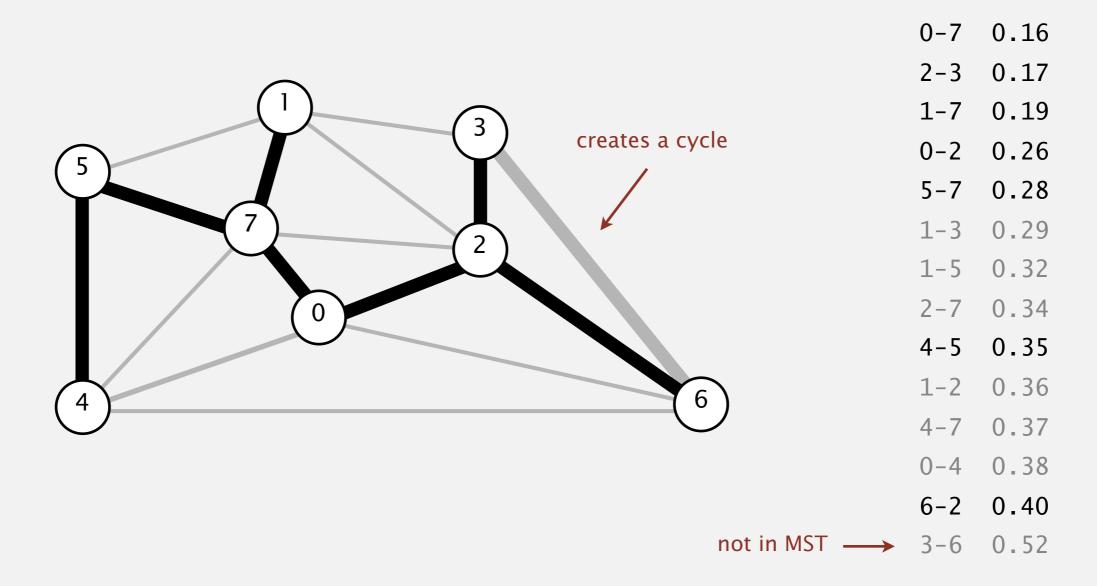
Consider edges in ascending order of weight.



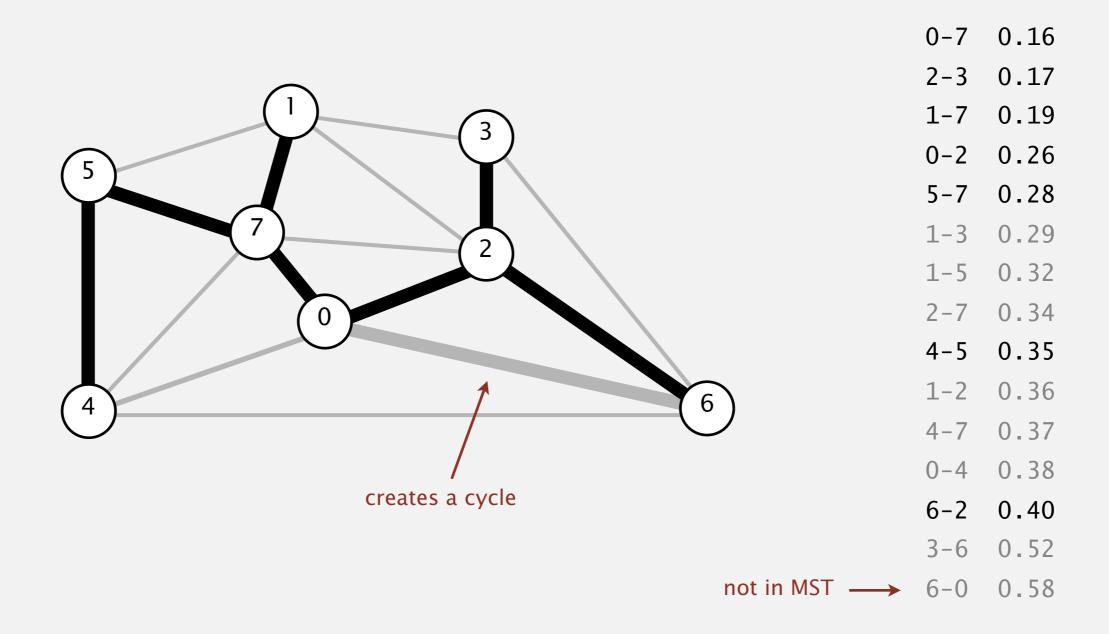
Consider edges in ascending order of weight.



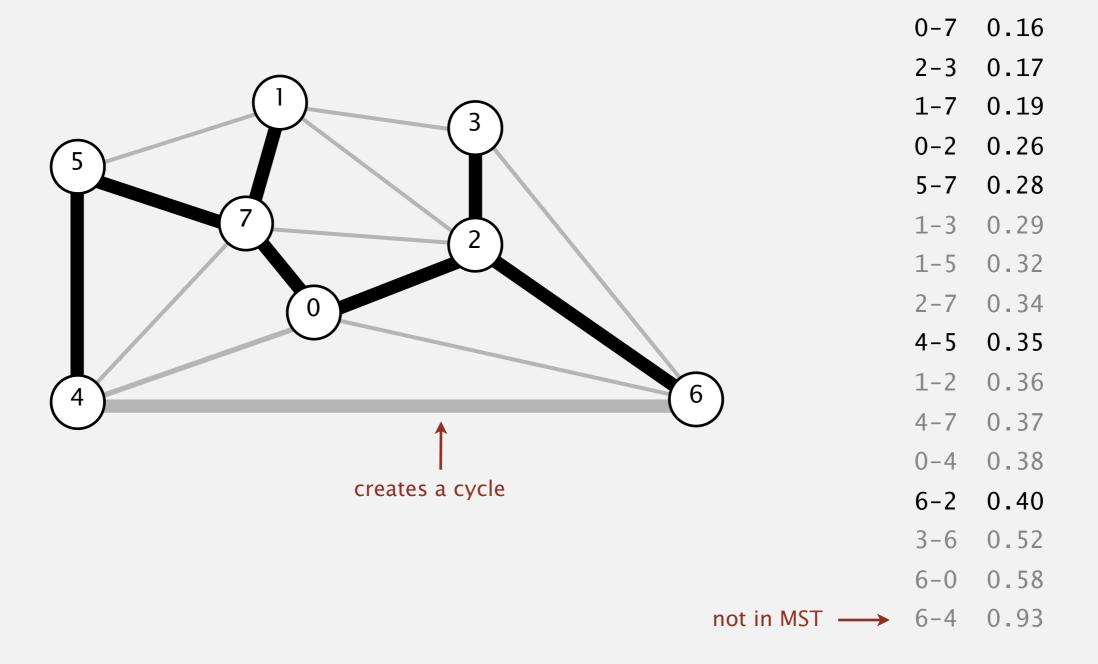
Consider edges in ascending order of weight.



Consider edges in ascending order of weight.

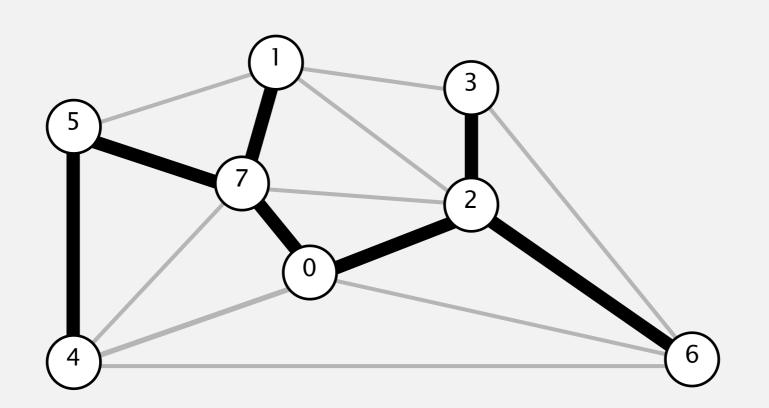


Consider edges in ascending order of weight.



Consider edges in ascending order of weight.

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



a minimum spanning tree

0-7 0.16 2-3 0.17 0.19 1-7 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 0.58

 $6-4 \quad 0.93$