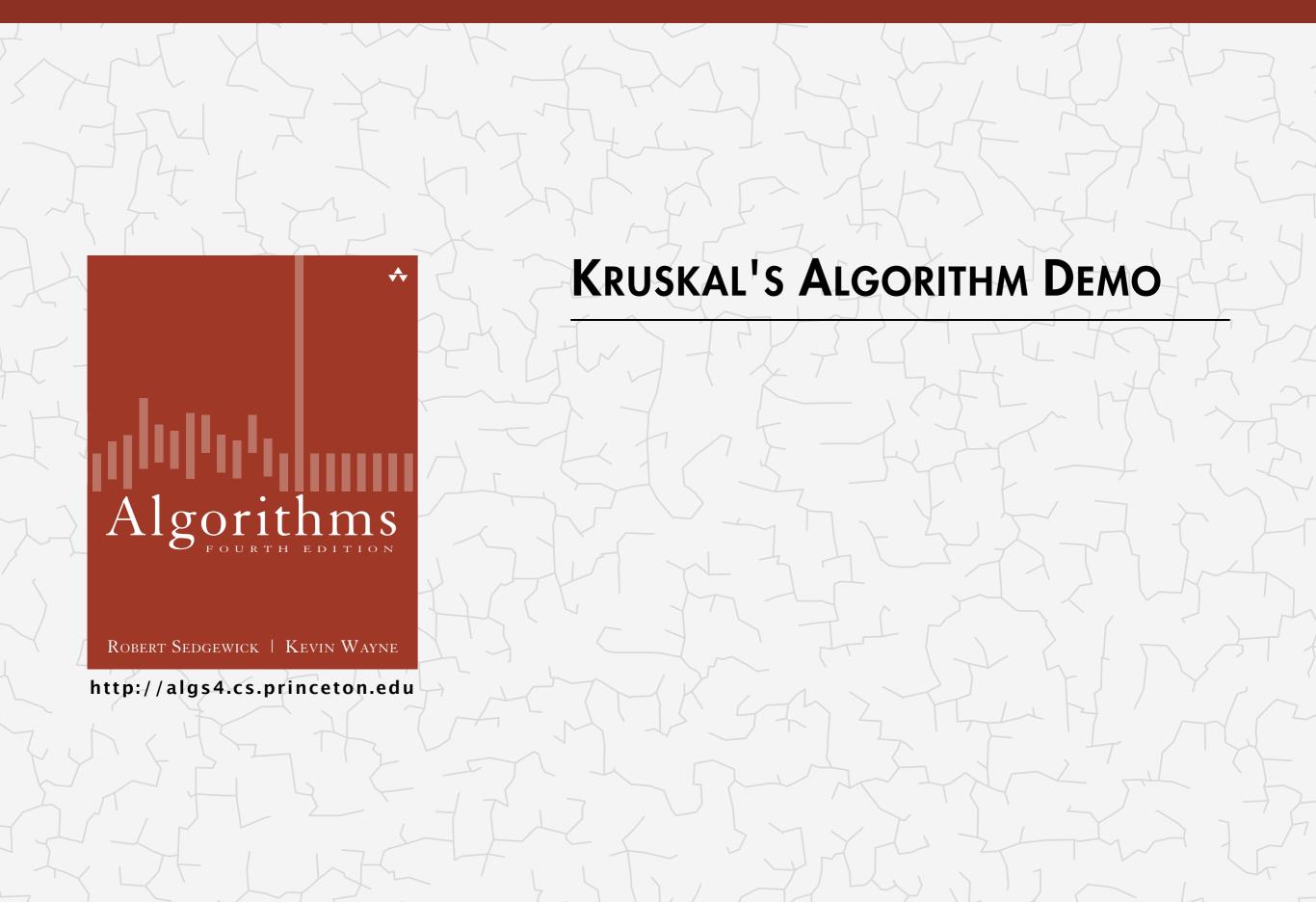
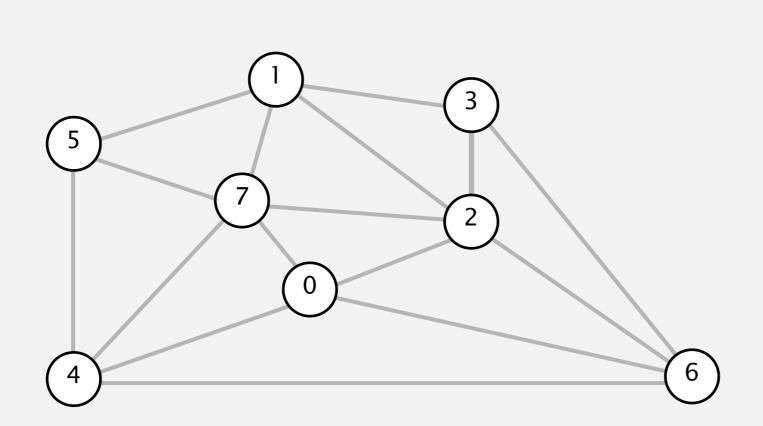
Algorithms



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



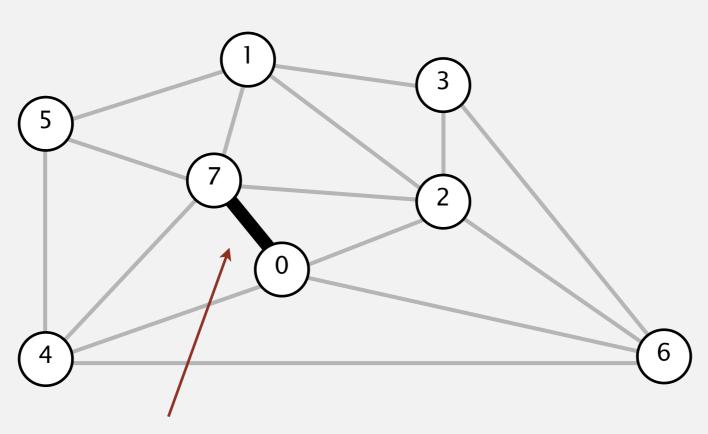
an edge-weighted graph

	1
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

0.93

Consider edges in ascending order of weight.

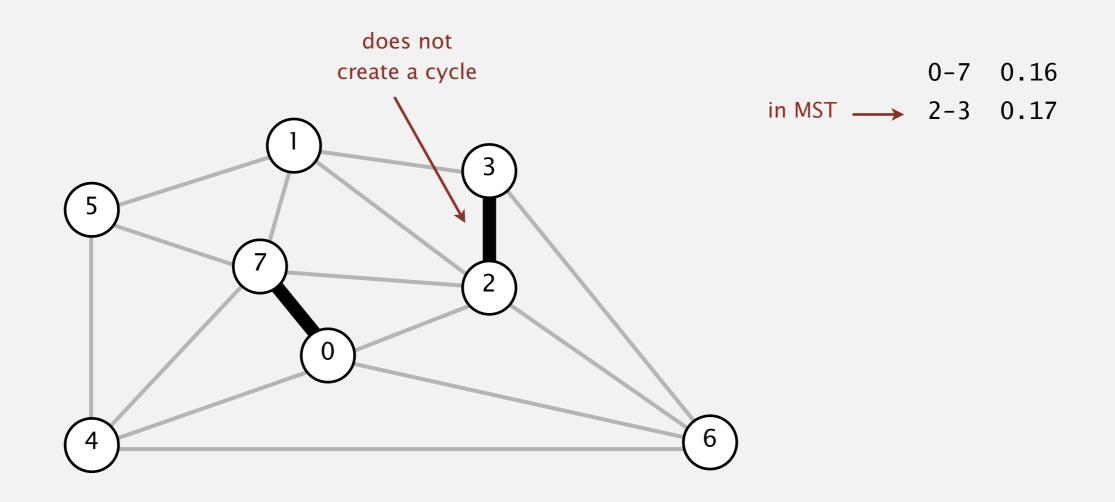
Add next edge to tree T unless doing so would create a cycle.



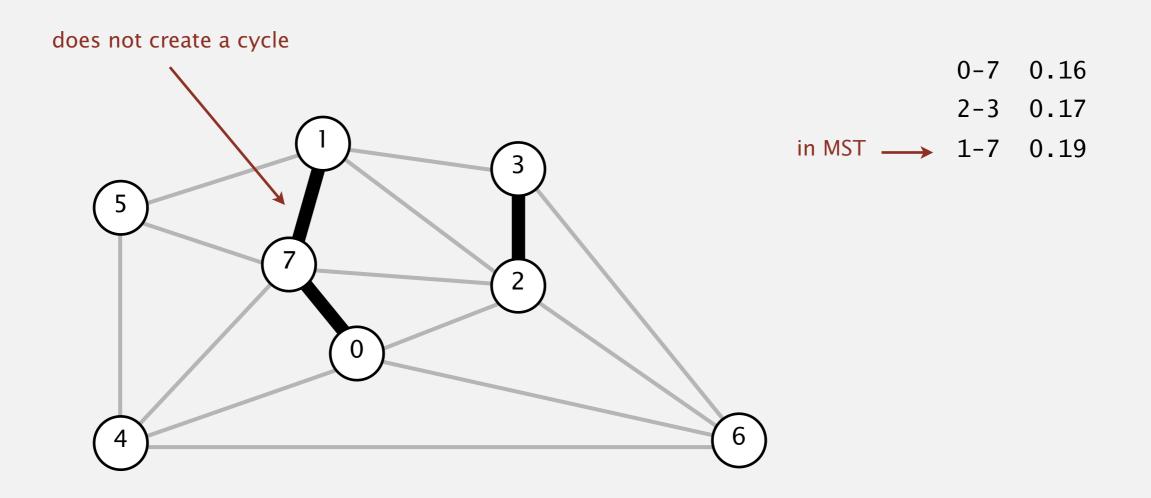
in MST \longrightarrow 0-7 0.16

does not create a cycle

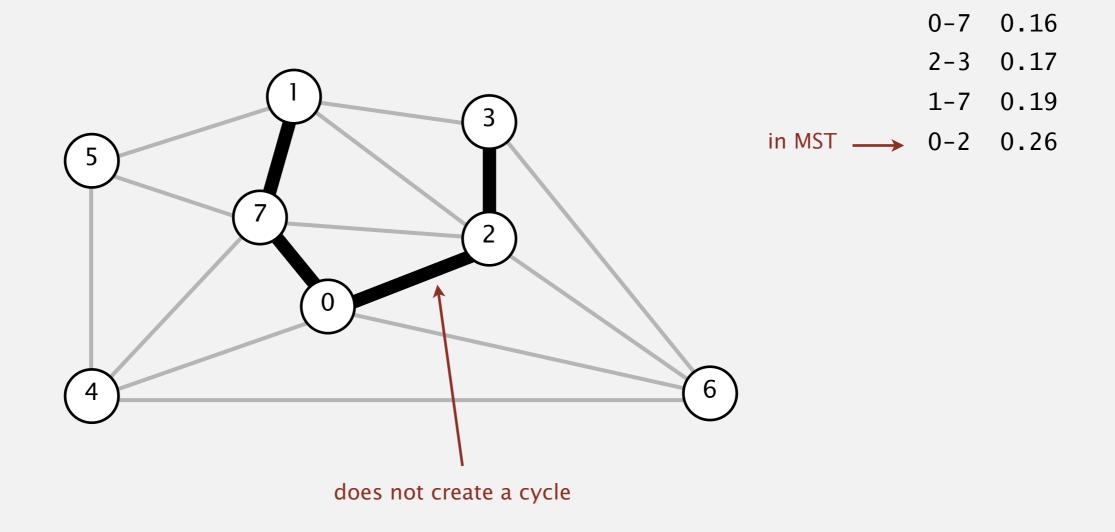
Consider edges in ascending order of weight.



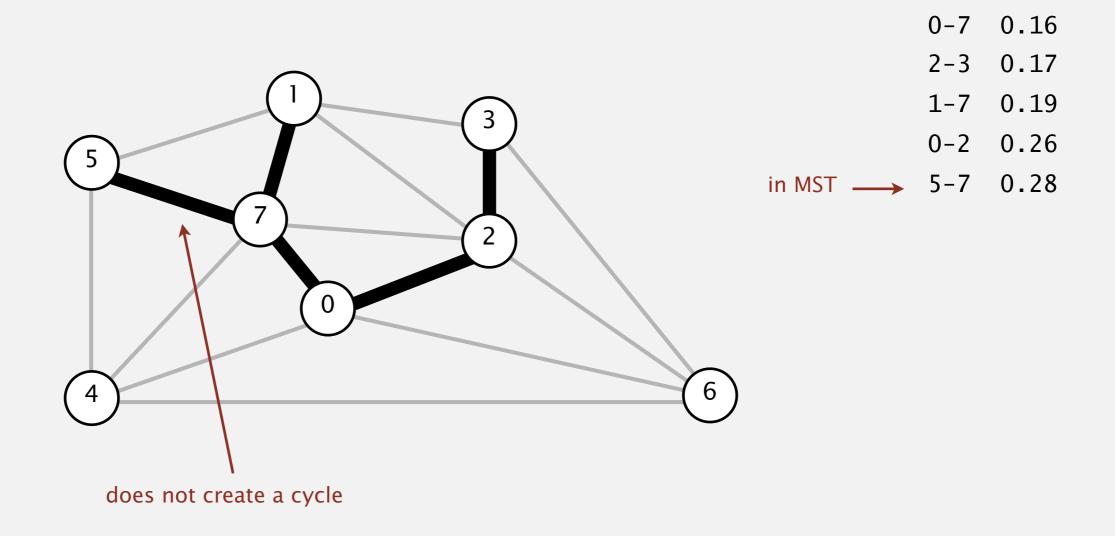
Consider edges in ascending order of weight.



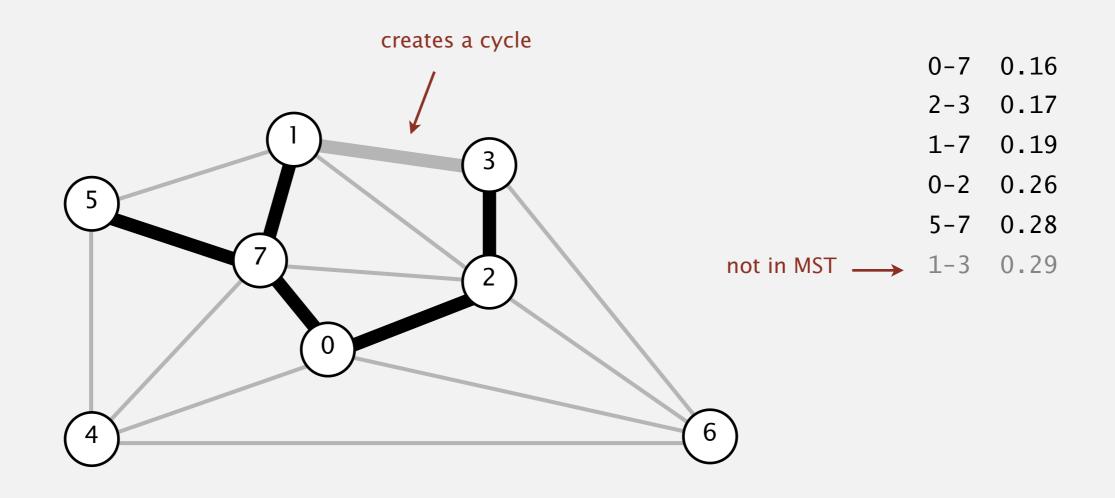
Consider edges in ascending order of weight.



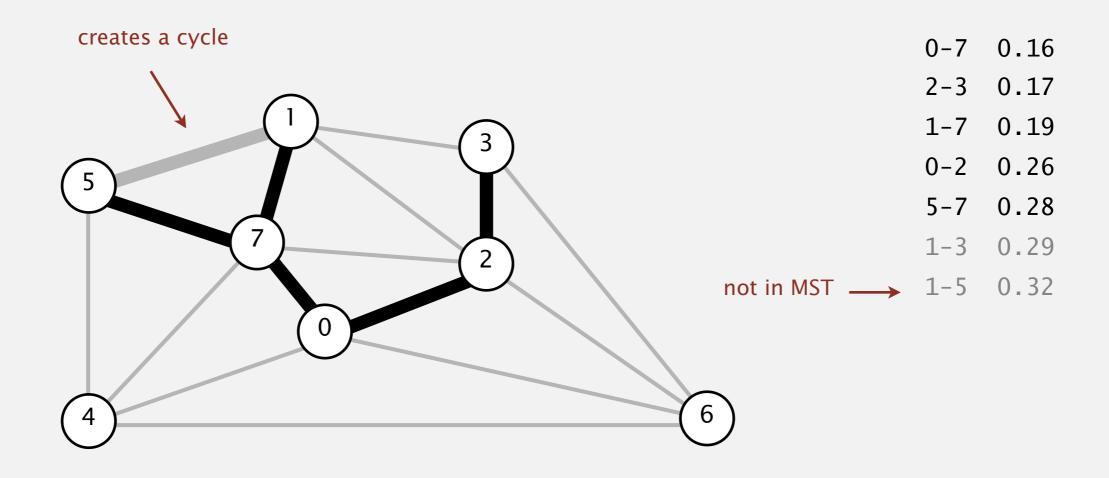
Consider edges in ascending order of weight.



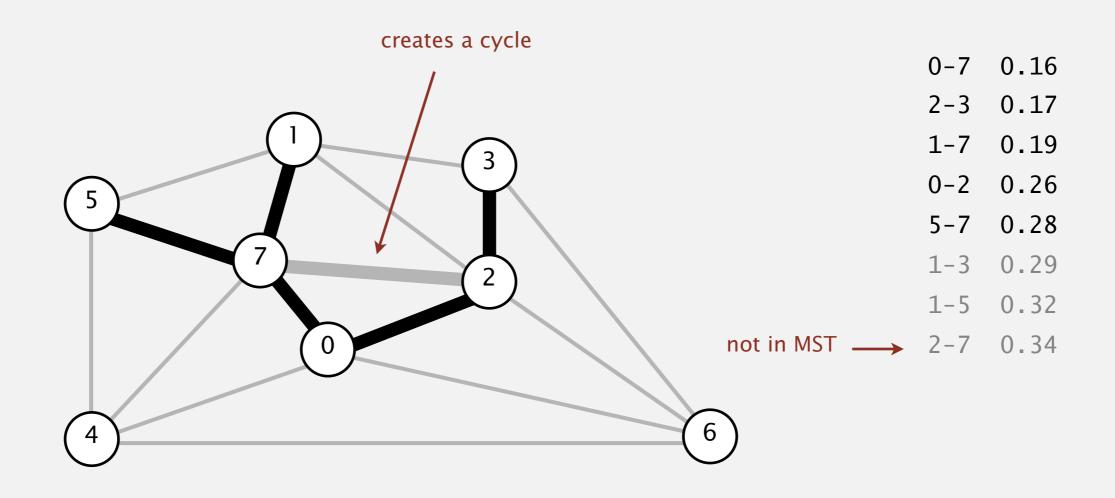
Consider edges in ascending order of weight.



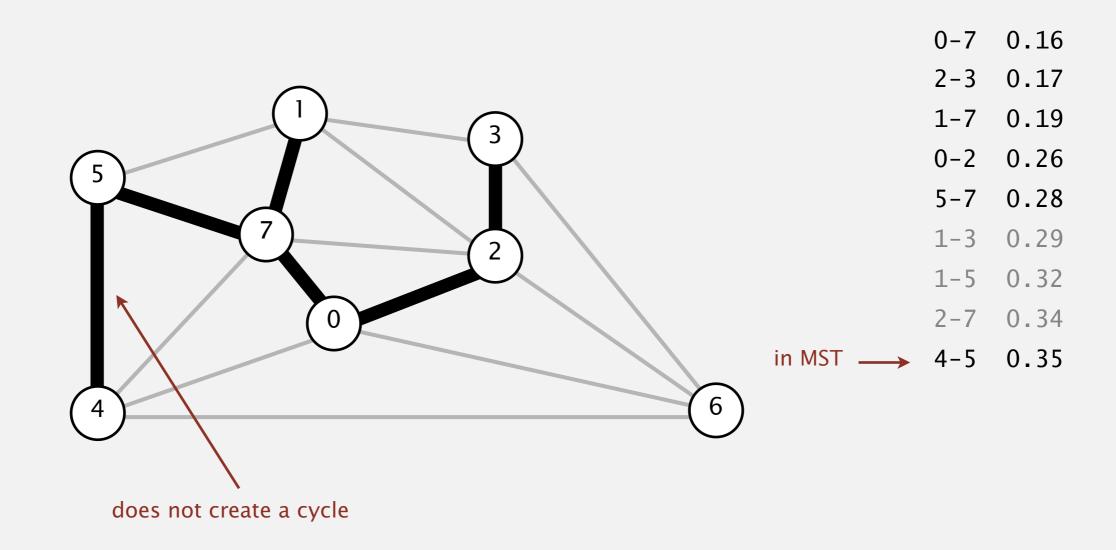
Consider edges in ascending order of weight.



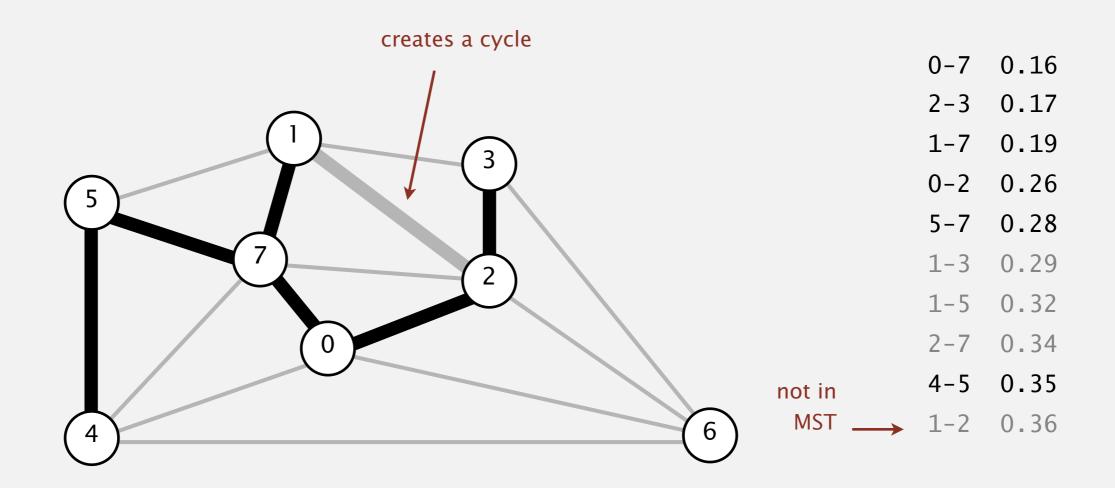
Consider edges in ascending order of weight.



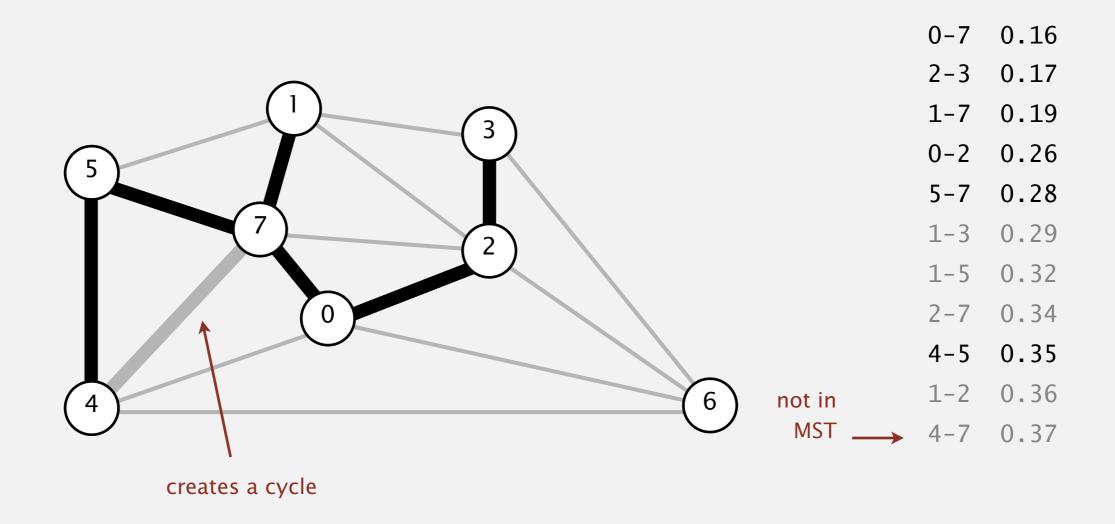
Consider edges in ascending order of weight.



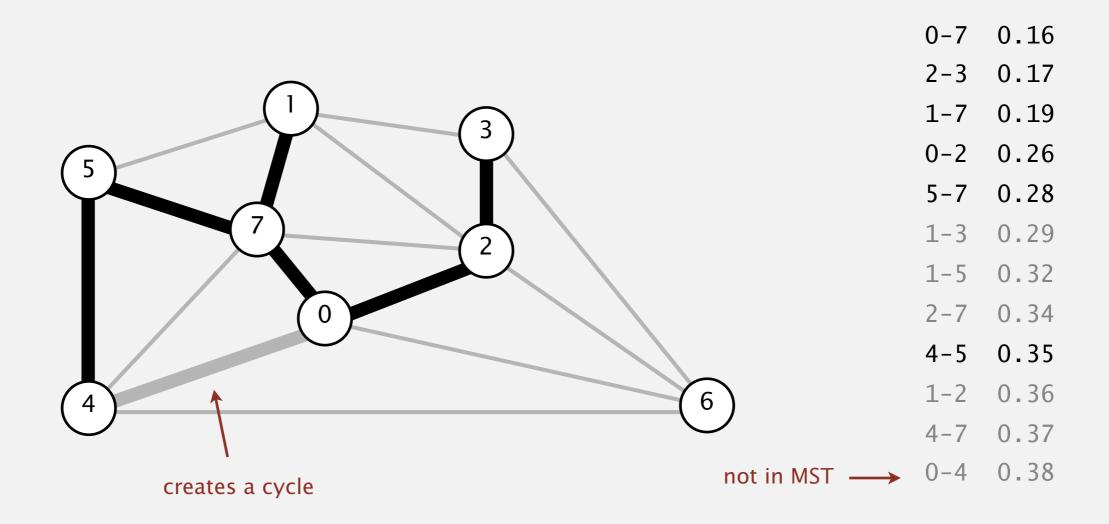
Consider edges in ascending order of weight.



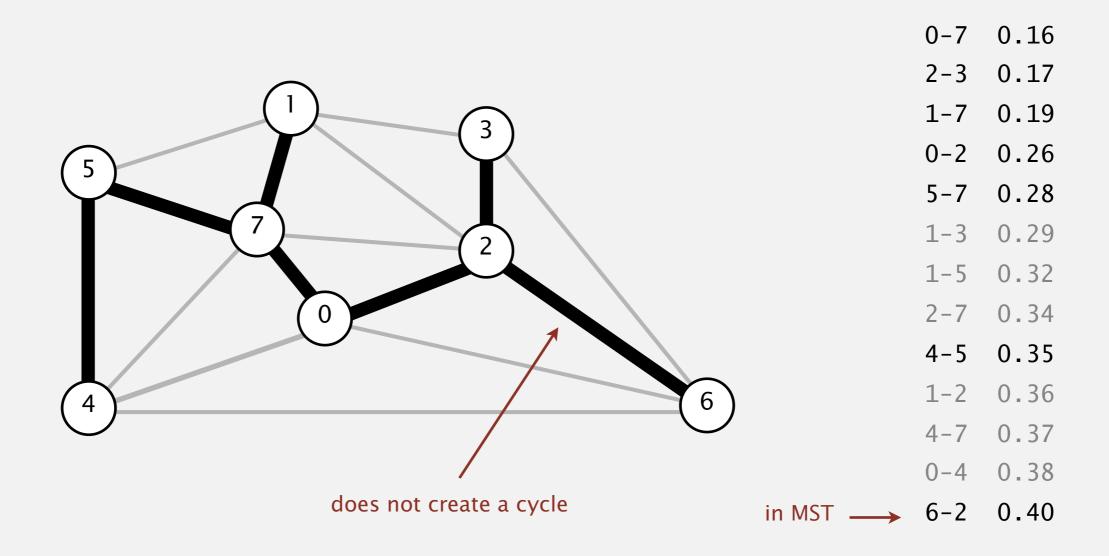
Consider edges in ascending order of weight.



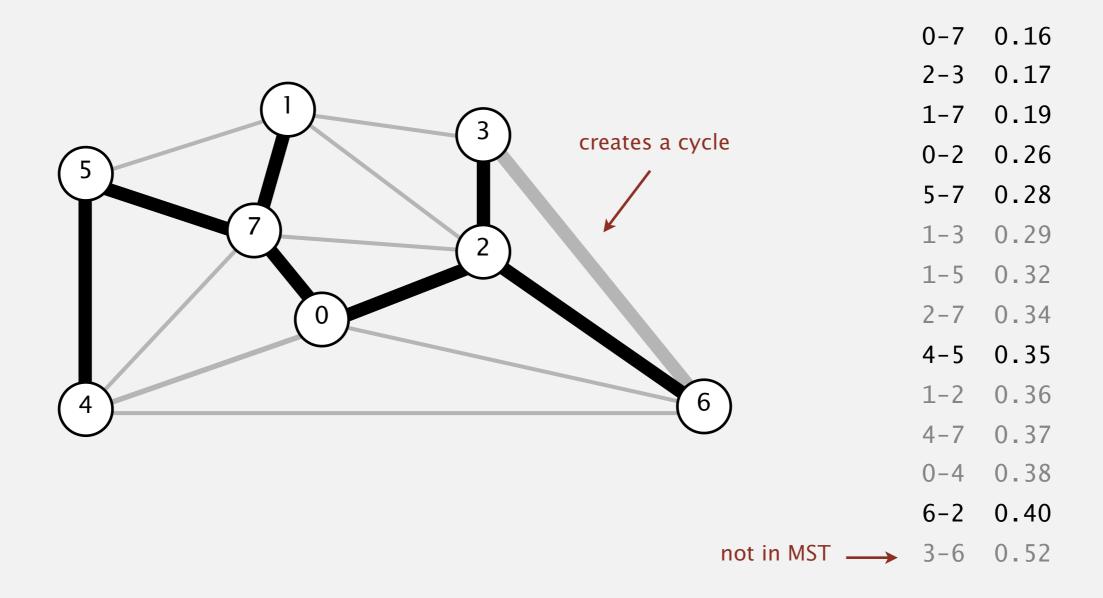
Consider edges in ascending order of weight.



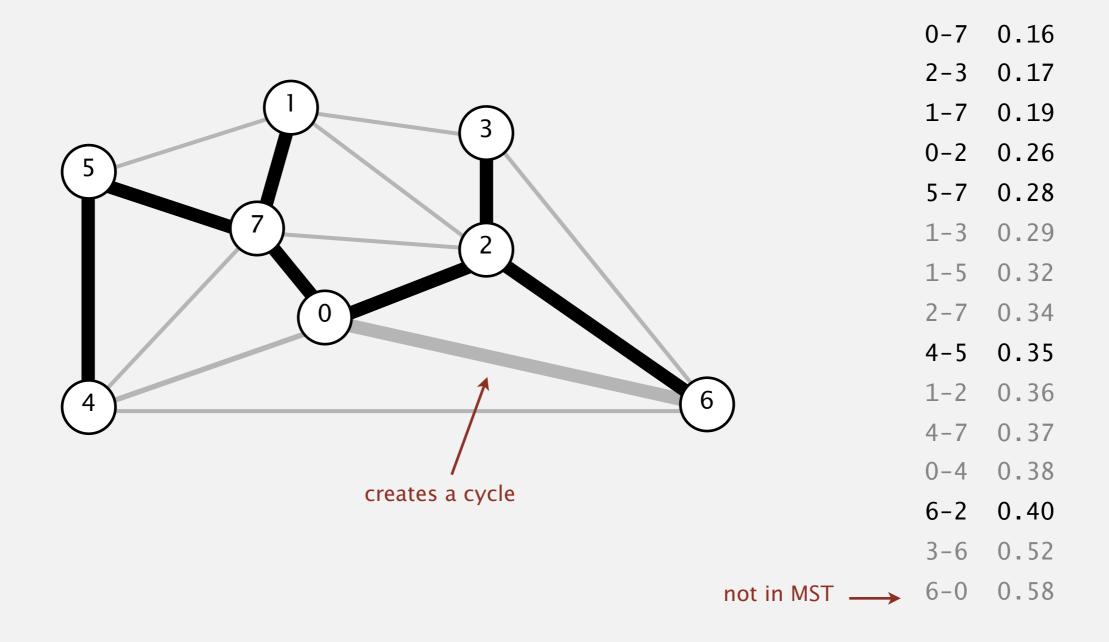
Consider edges in ascending order of weight.



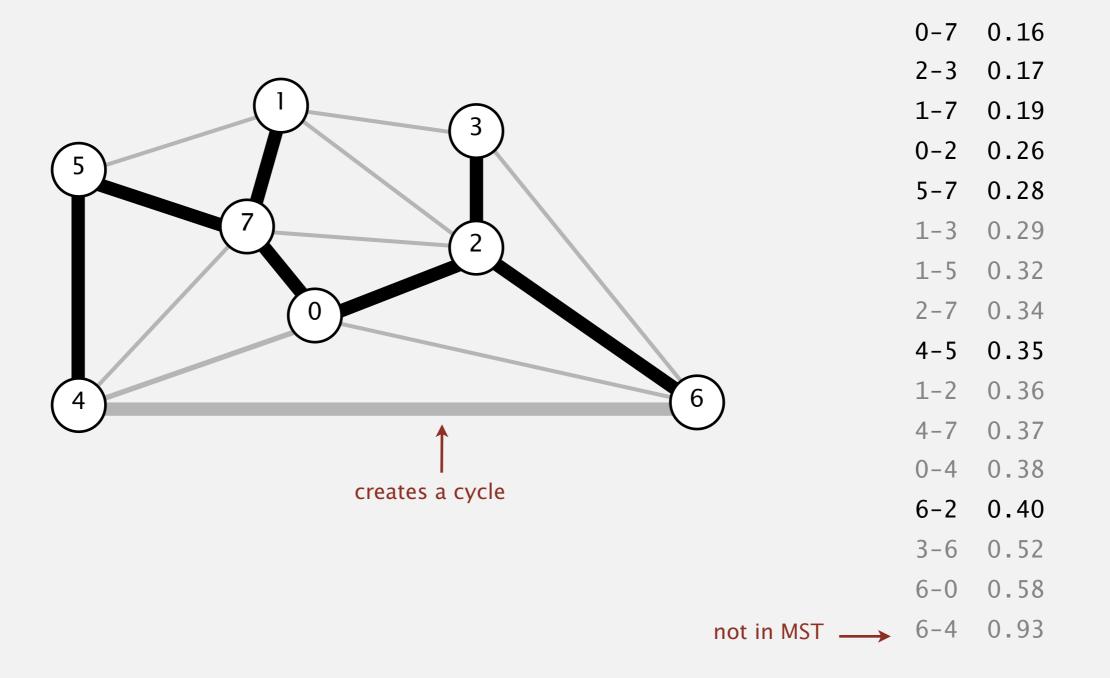
Consider edges in ascending order of weight.



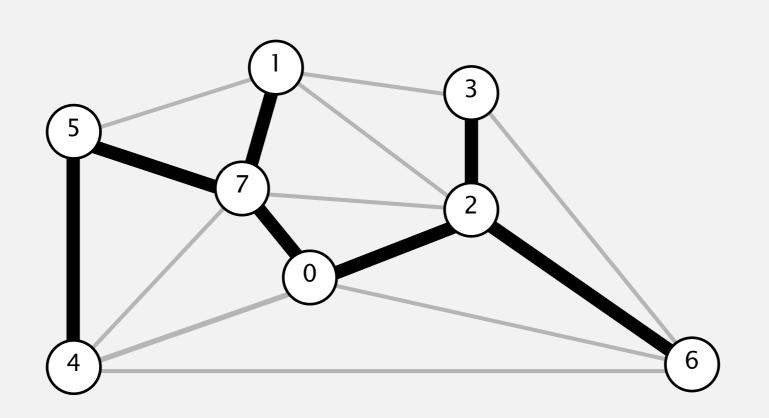
Consider edges in ascending order of weight.



Consider edges in ascending order of weight.



Consider edges in ascending order of weight.



a minimum spanning tree

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
4-5 1-2	
	0.35
1-2	0.35 0.36
1-2 4-7	0.35 0.36 0.37
1-2 4-7 0-4	0.35 0.36 0.37 0.38
1-2 4-7 0-4 6-2	0.35 0.36 0.37 0.38 0.40