

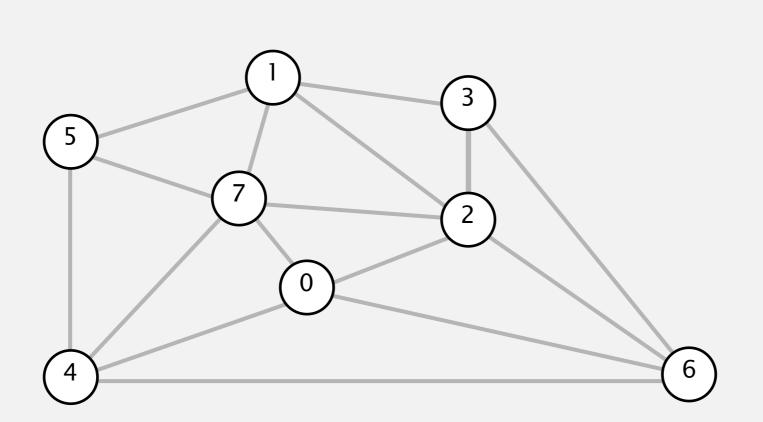
KRUSKAL'S ALGORITHM DEMO

Last updated on 11/13/18 8:53 AM

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

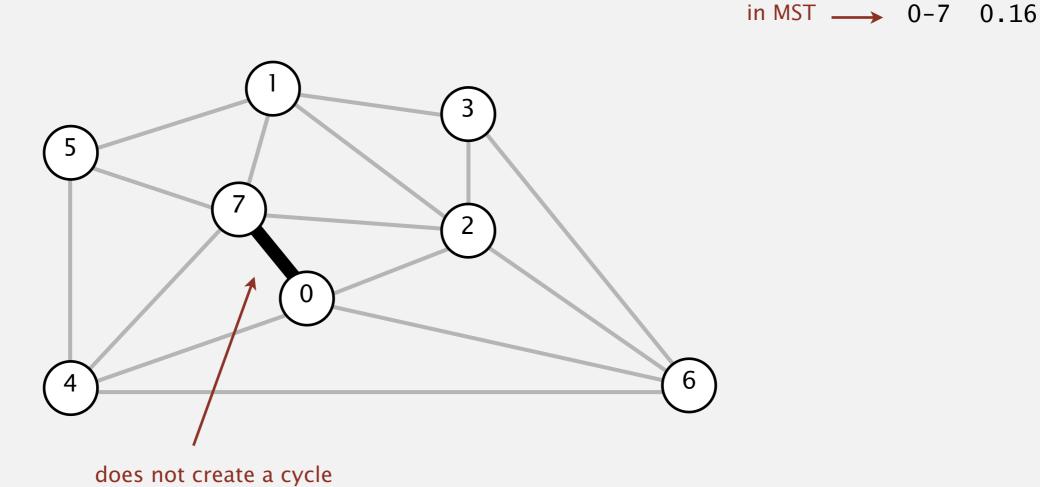


an edge-weighted graph

	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
6-4	0.93

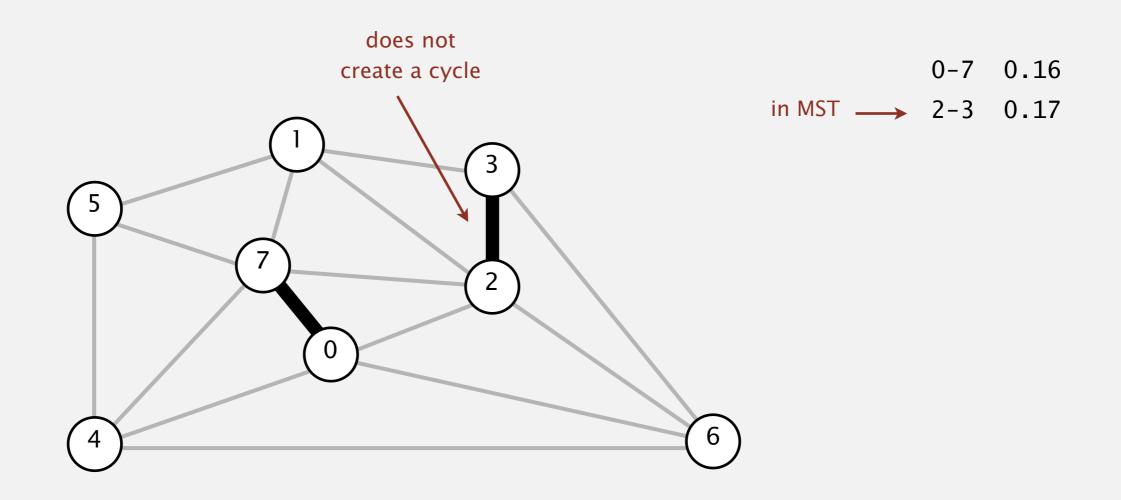
Consider edges in ascending order of weight.

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

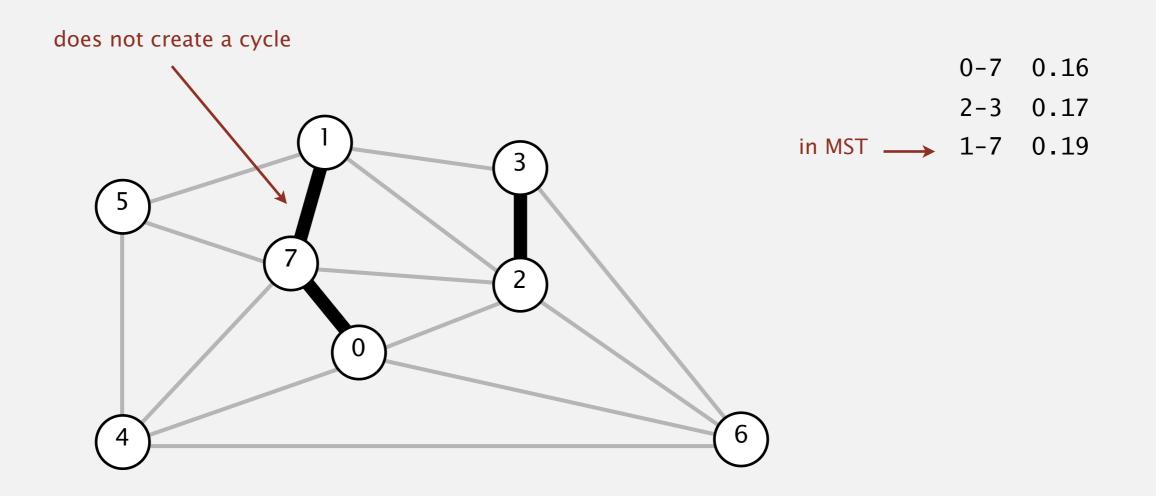


3

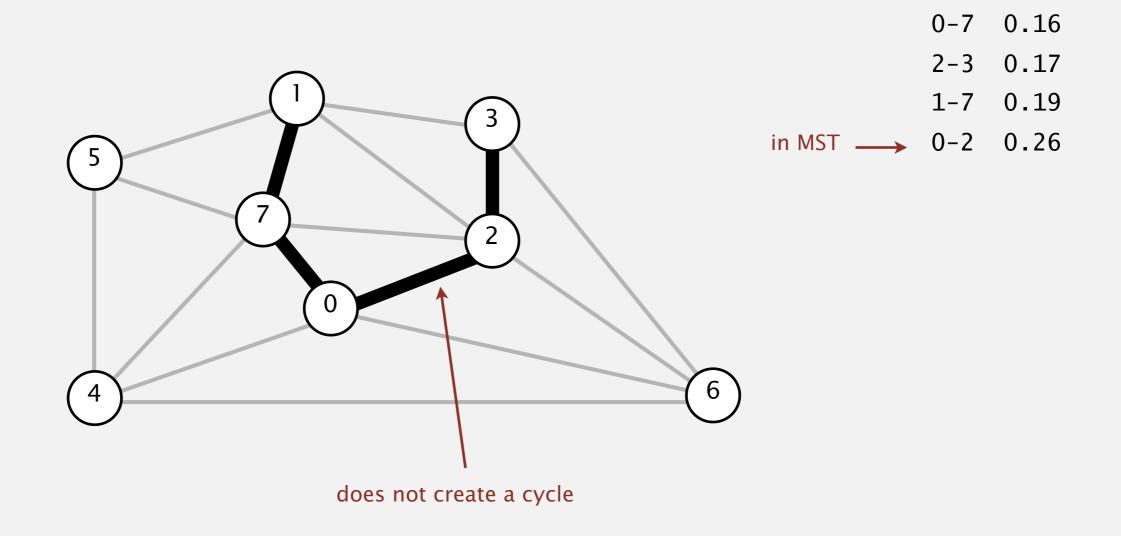
Consider edges in ascending order of weight.



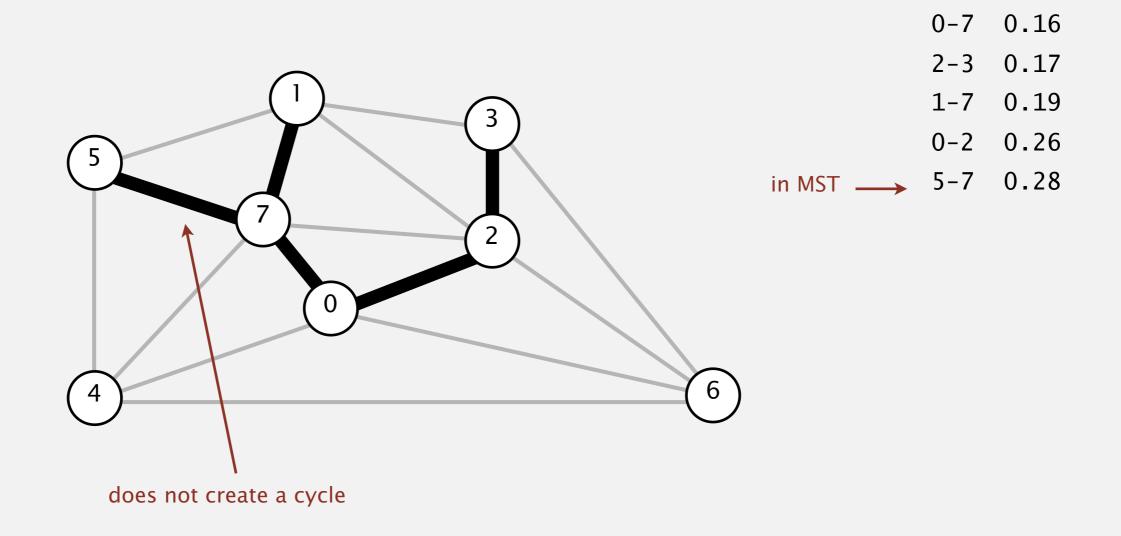
Consider edges in ascending order of weight.



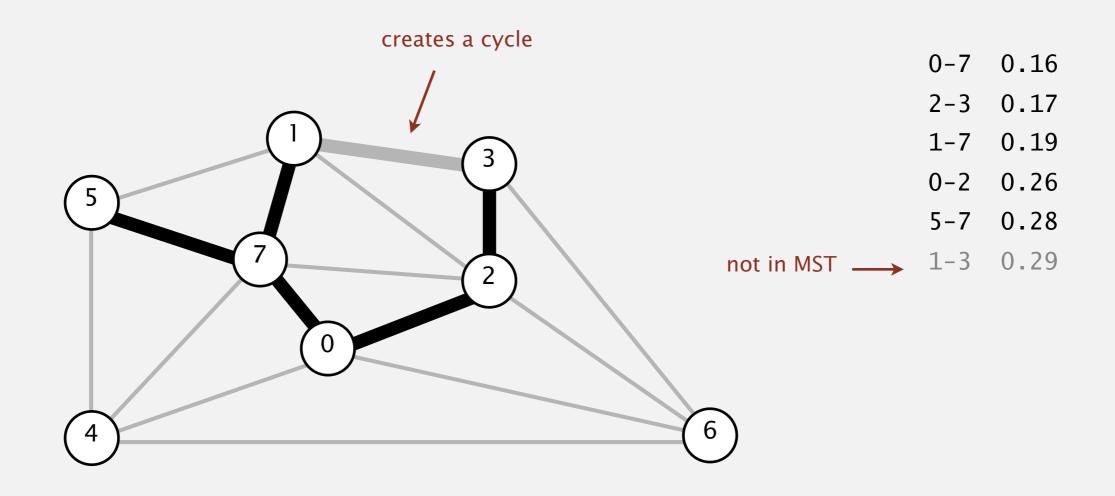
Consider edges in ascending order of weight.



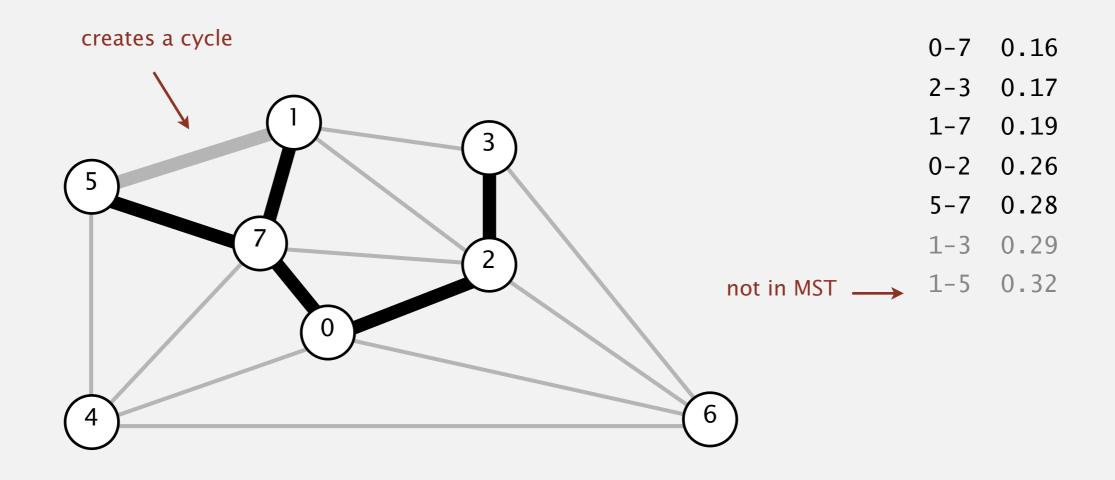
Consider edges in ascending order of weight.



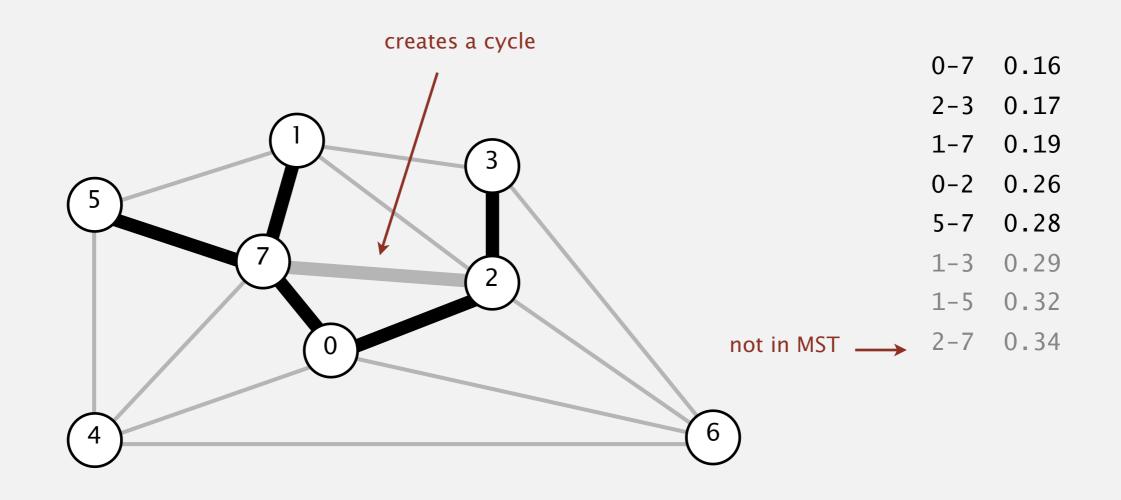
Consider edges in ascending order of weight.



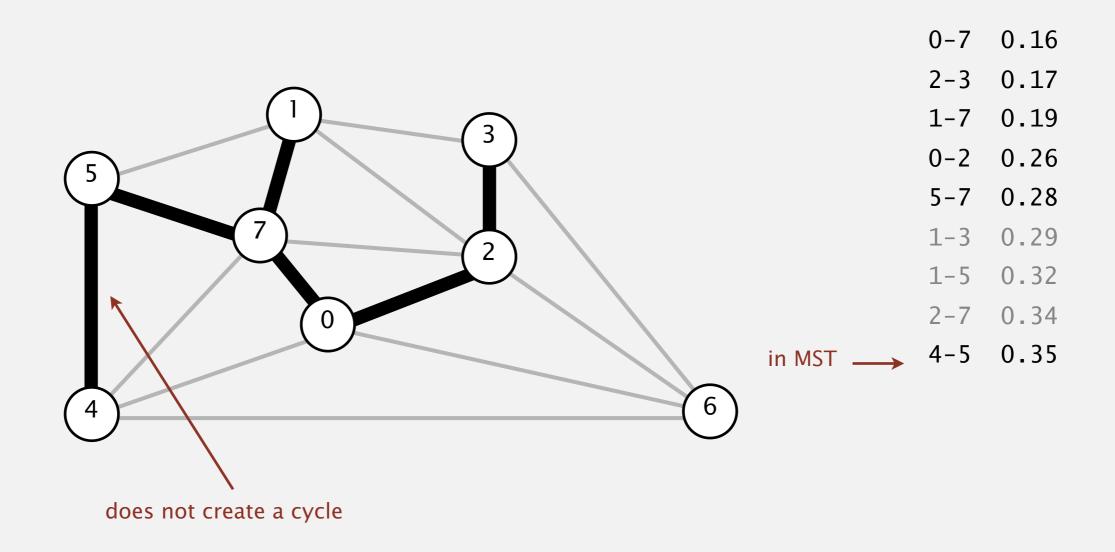
Consider edges in ascending order of weight.



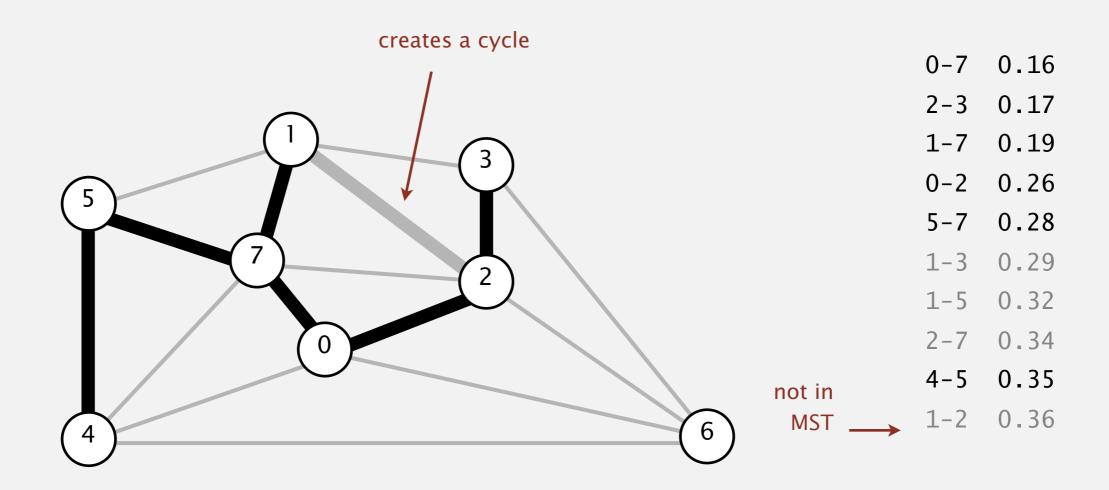
Consider edges in ascending order of weight.



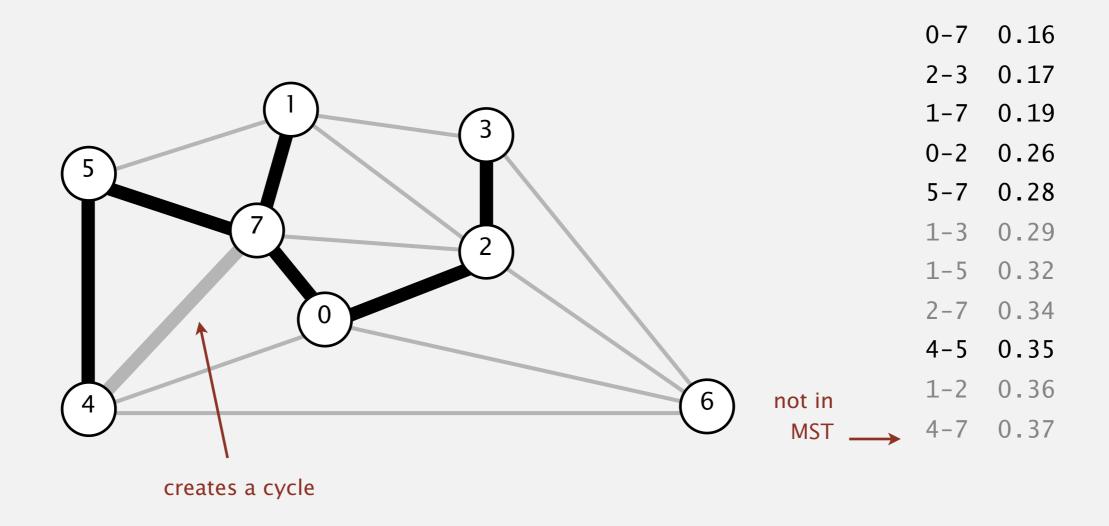
Consider edges in ascending order of weight.



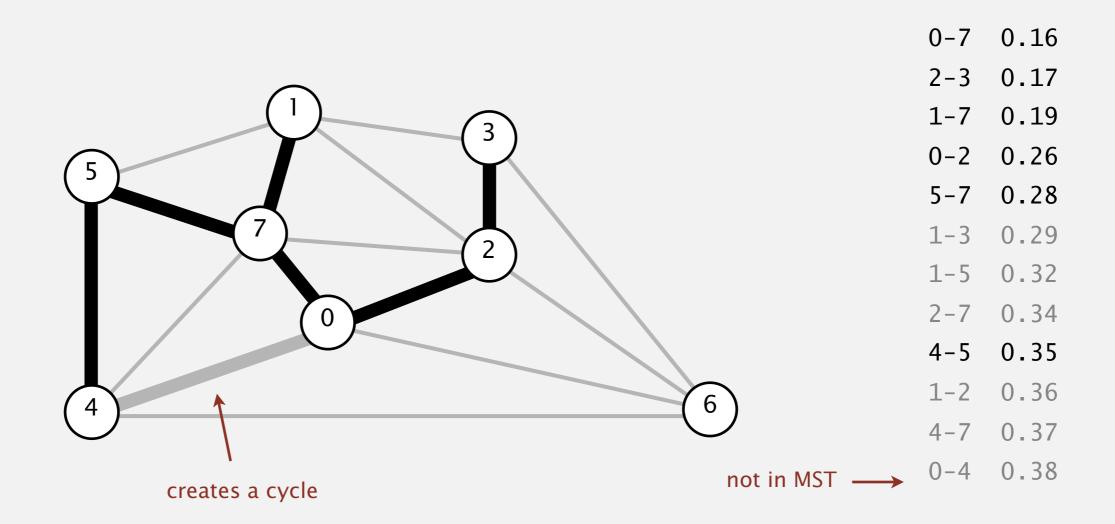
Consider edges in ascending order of weight.



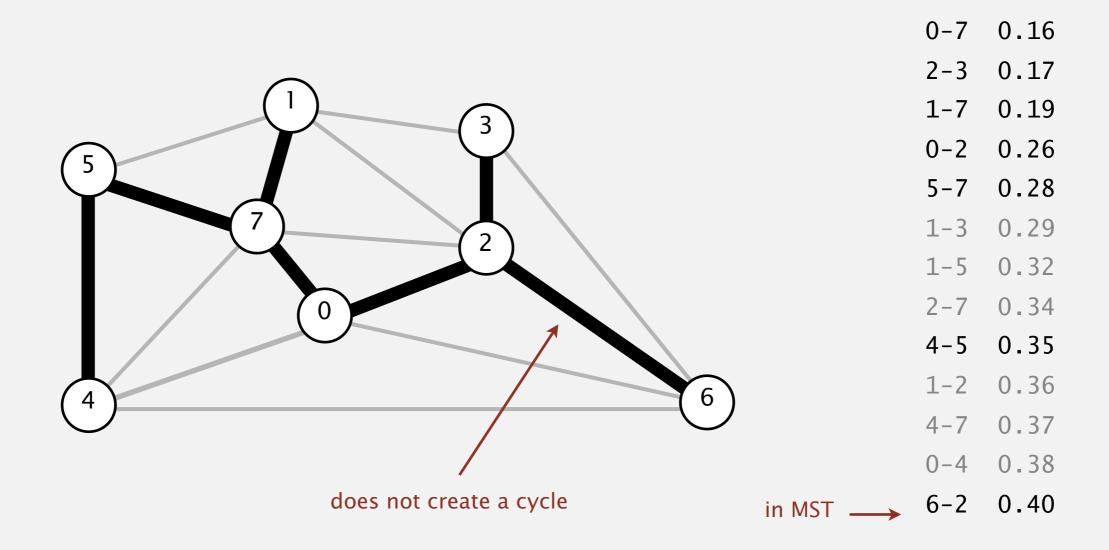
Consider edges in ascending order of weight.



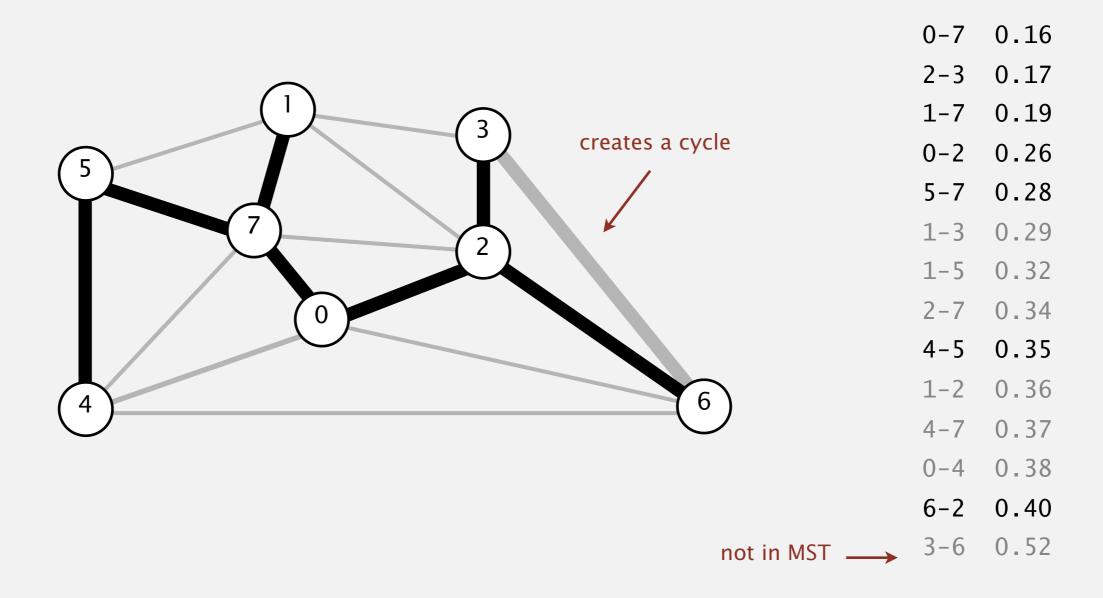
Consider edges in ascending order of weight.



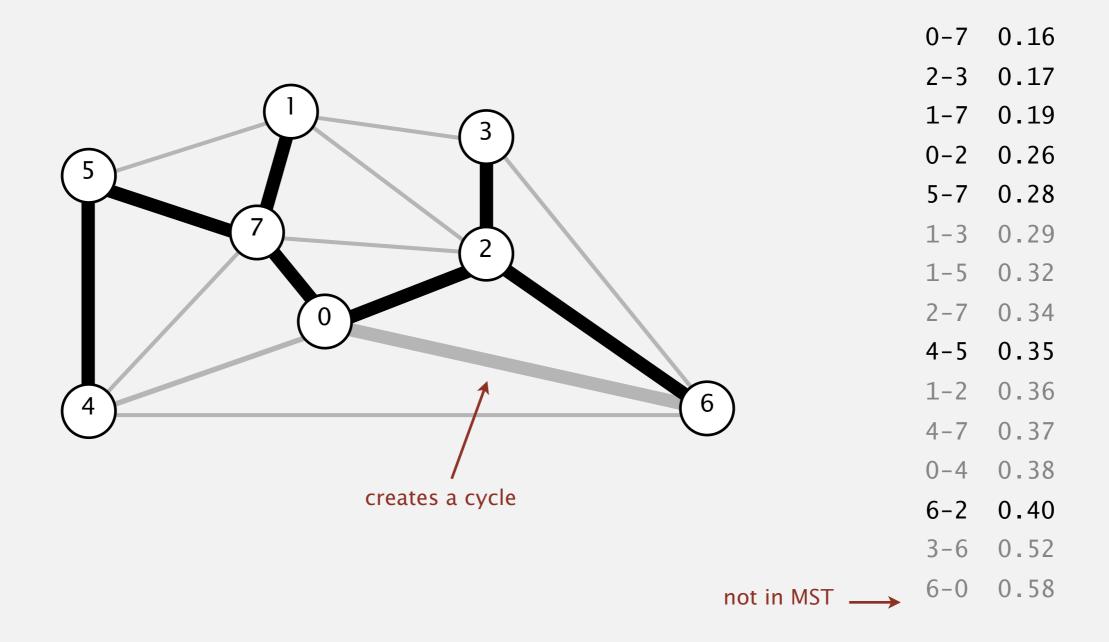
Consider edges in ascending order of weight.



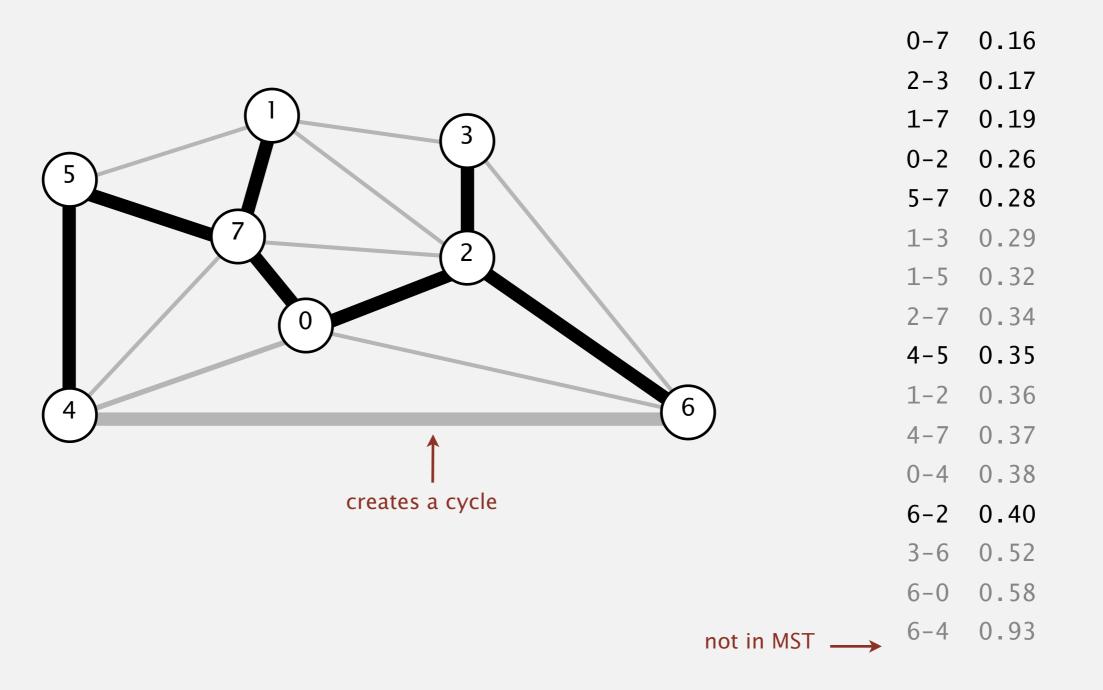
Consider edges in ascending order of weight.



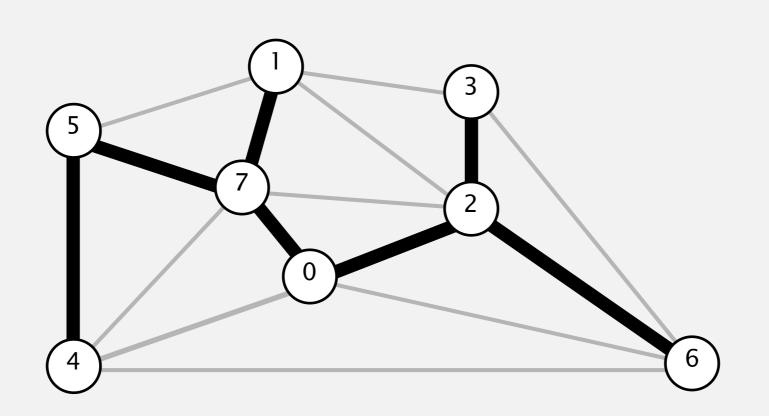
Consider edges in ascending order of weight.



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