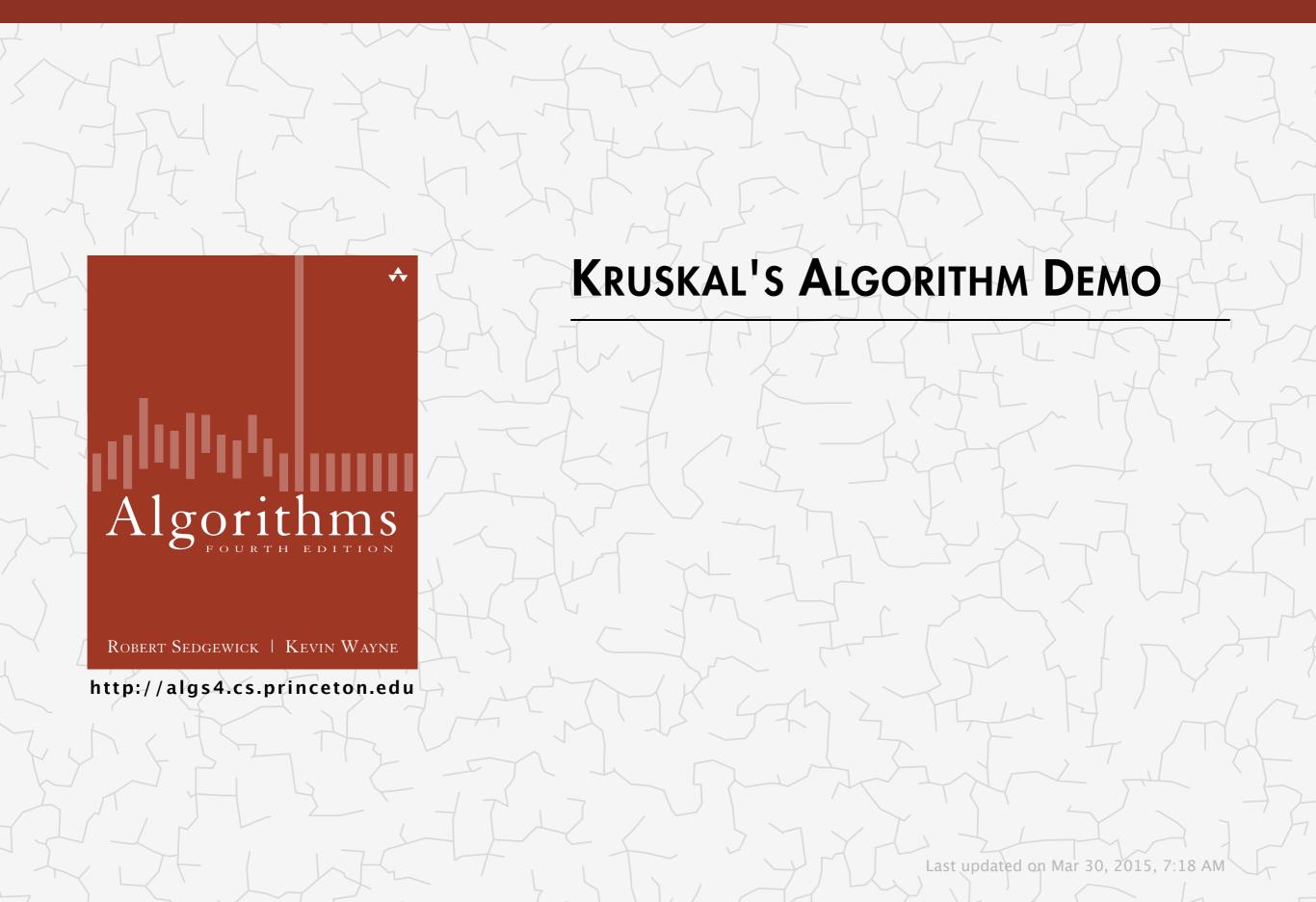
# Algorithms



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

0.16

0.17

0.19

0.26

0.28

0.29

0.32

0.34

0.35

0.36

0.37

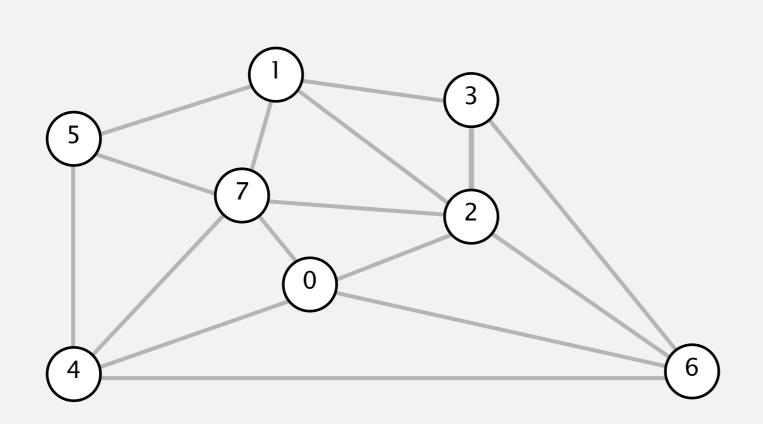
0.38

0.40

0.52

0.58

0.93



an edge-weighted graph

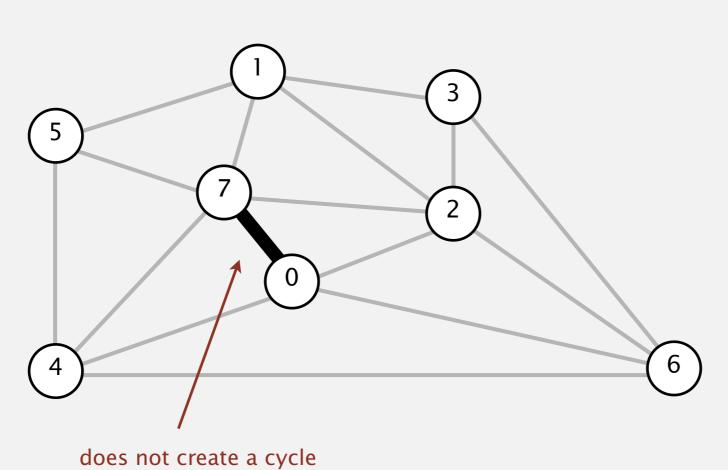
0-7
2-3
1-7
0-2
5-7
1-3
1-5
2-7
4-5
1-2
4-7
0-4
6-2
3-6

6-0

6-4

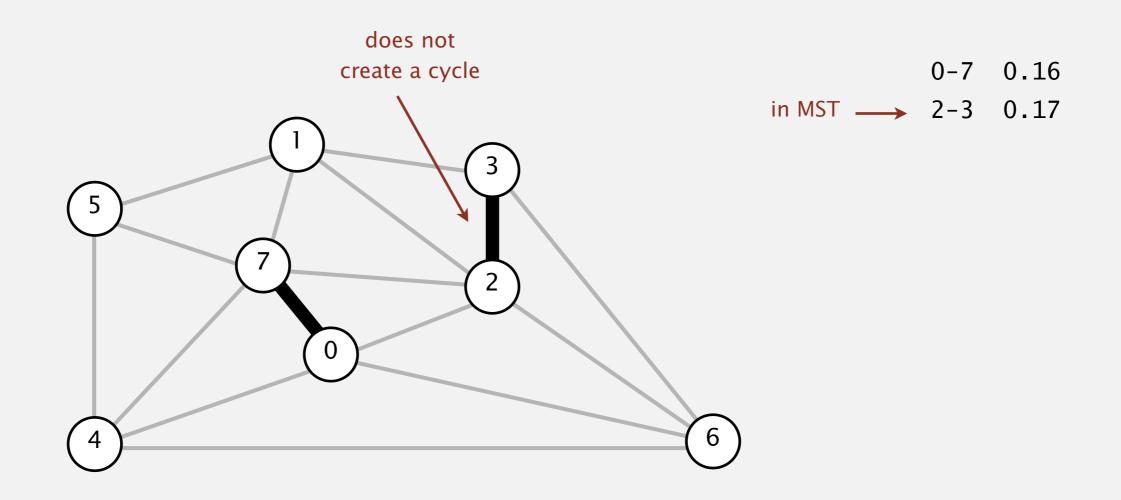
Consider edges in ascending order of weight.

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

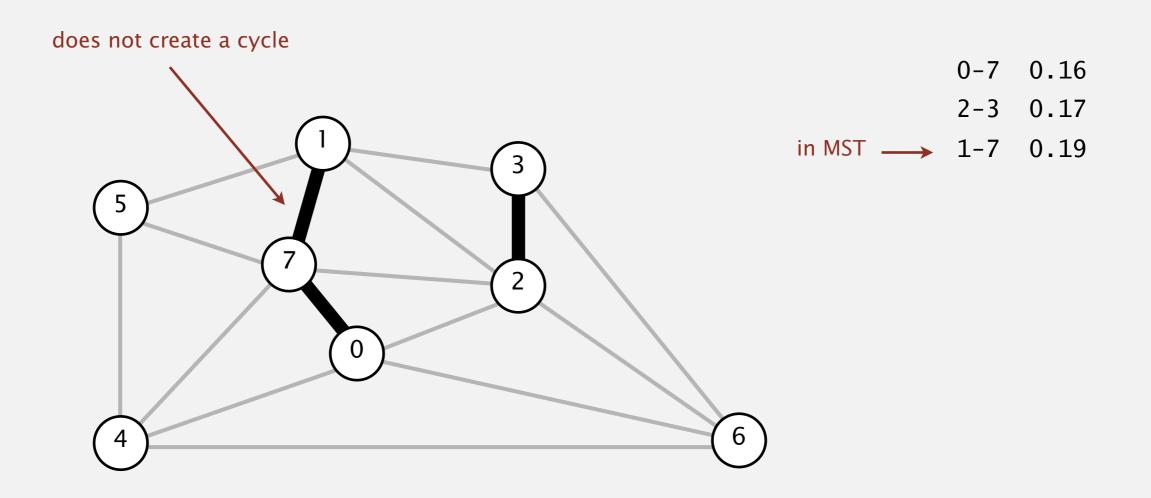


in MST  $\longrightarrow$  0-7 0.16

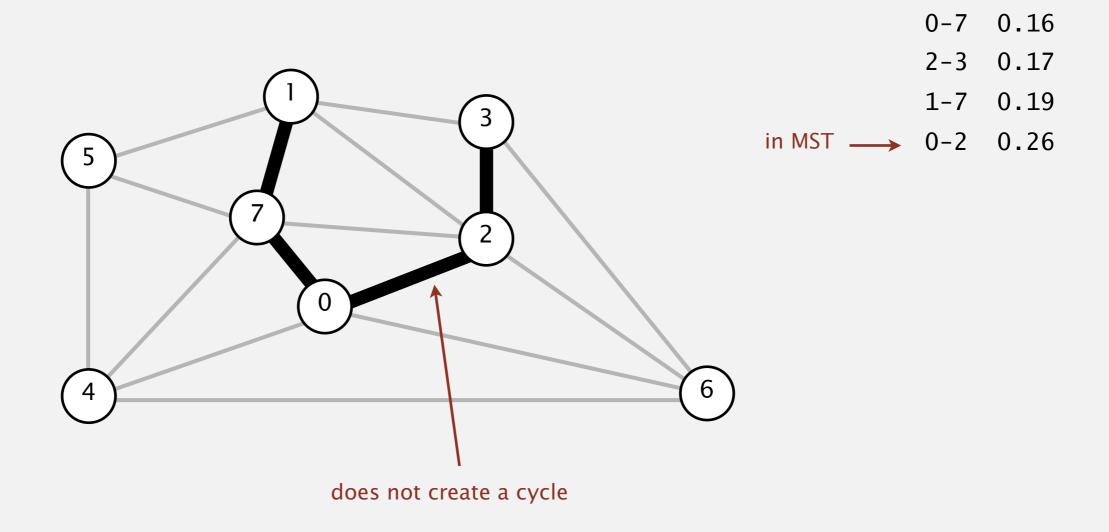
Consider edges in ascending order of weight.



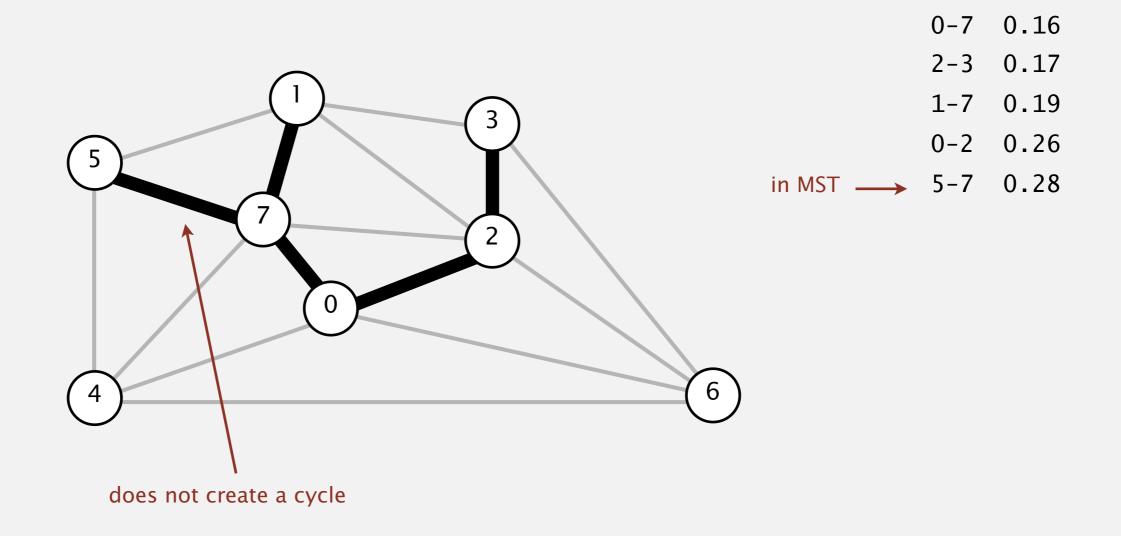
Consider edges in ascending order of weight.



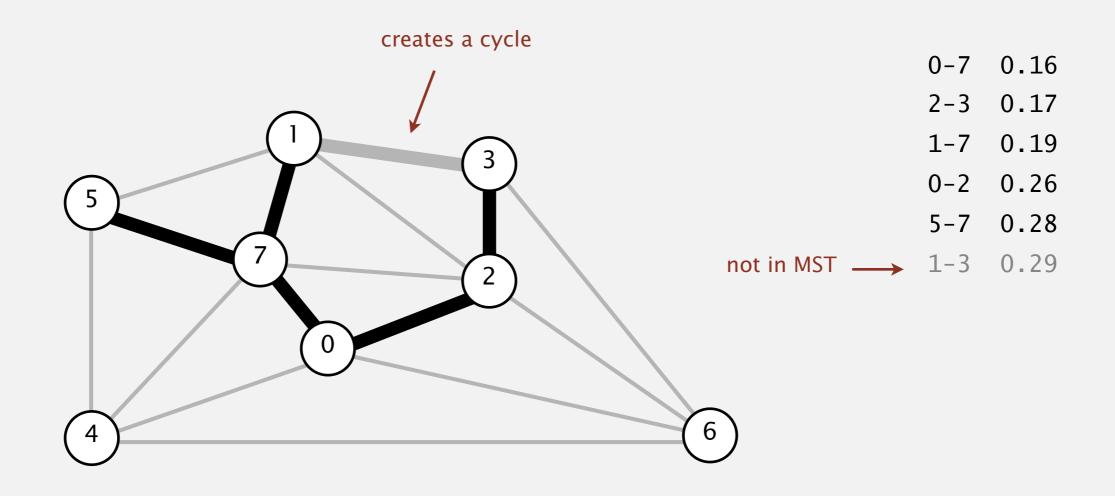
Consider edges in ascending order of weight.



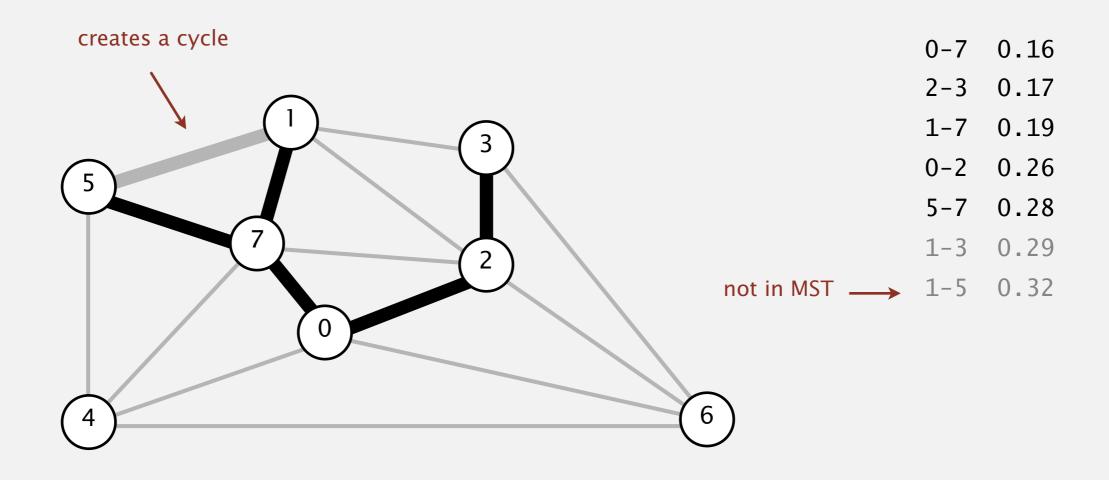
Consider edges in ascending order of weight.



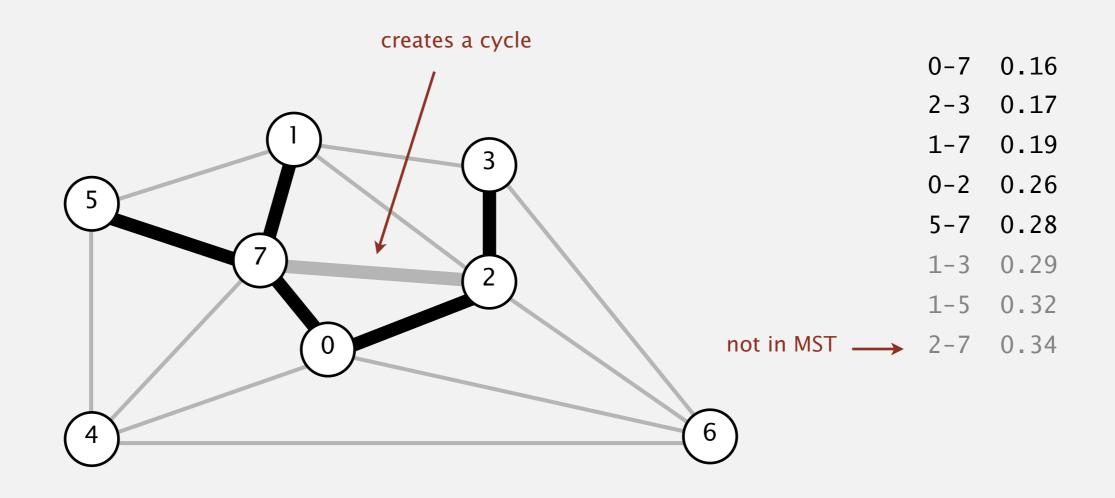
Consider edges in ascending order of weight.



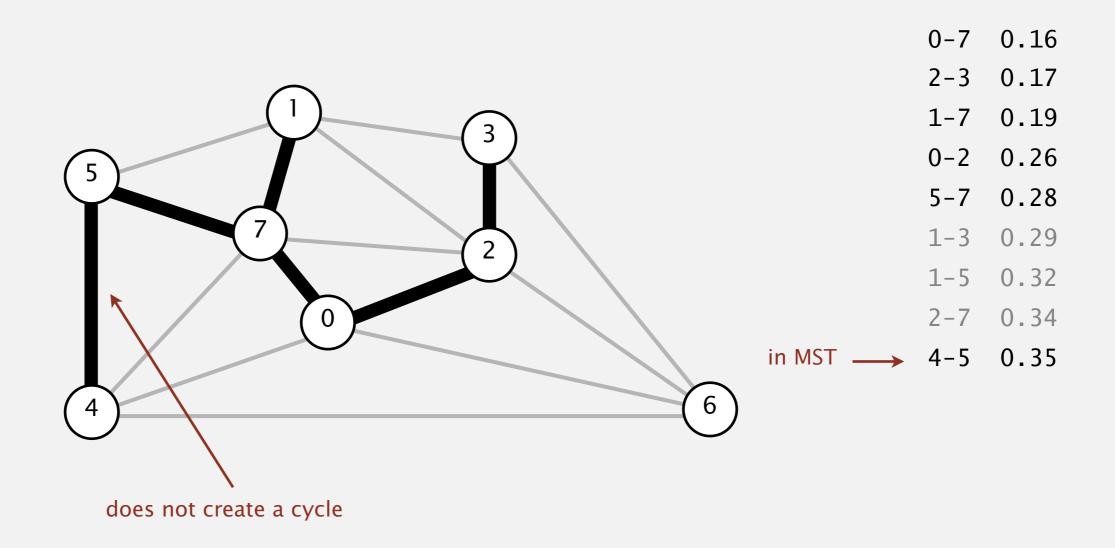
Consider edges in ascending order of weight.



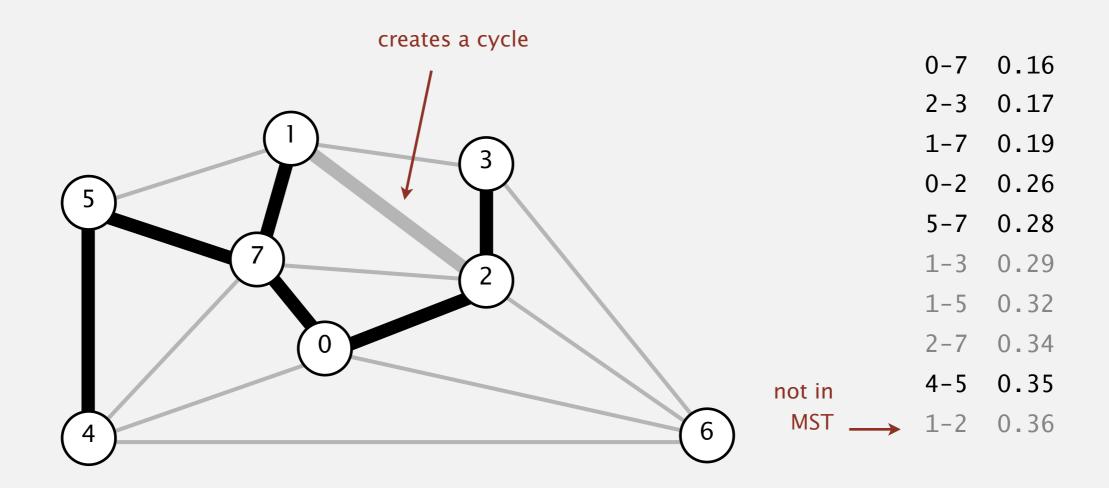
Consider edges in ascending order of weight.



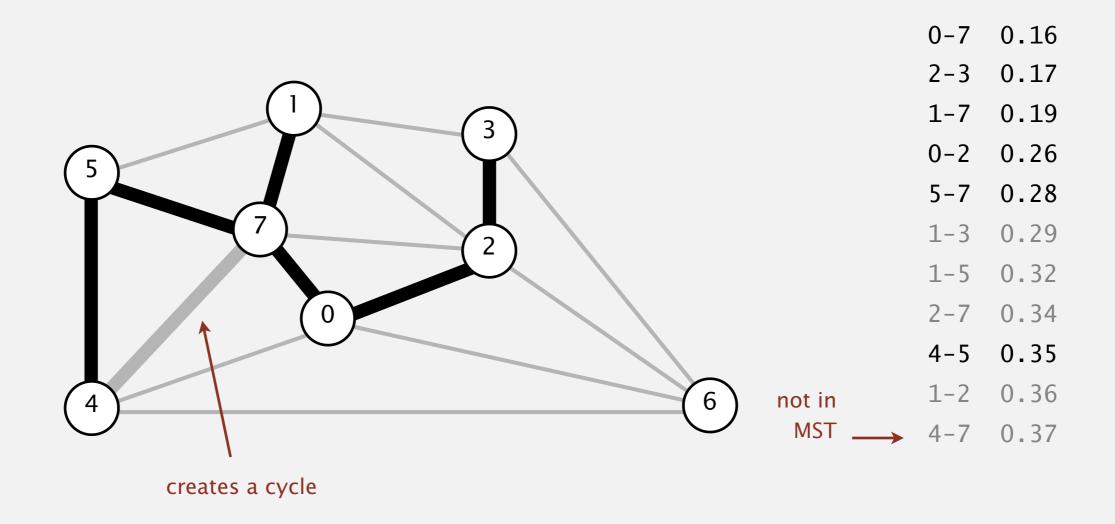
Consider edges in ascending order of weight.



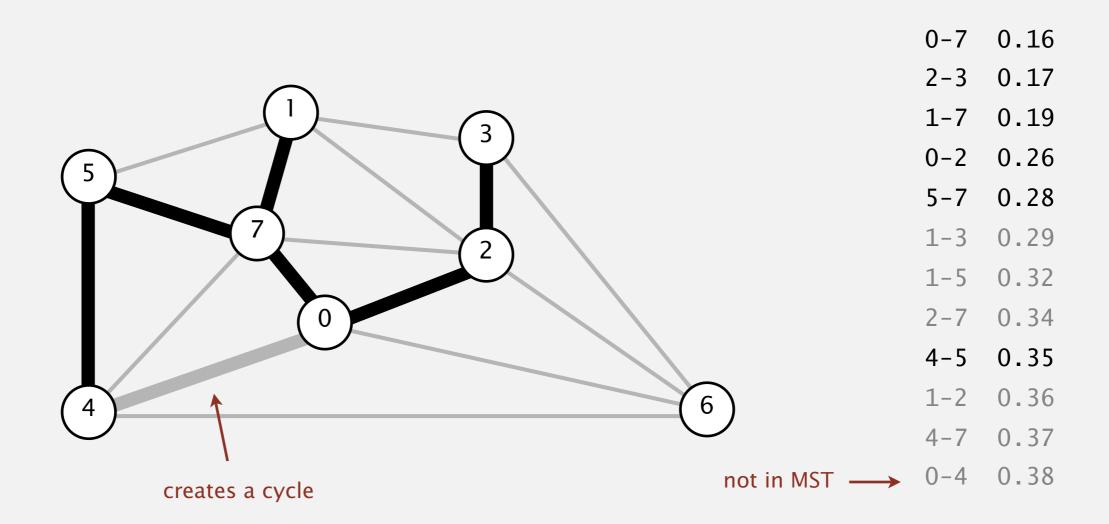
Consider edges in ascending order of weight.



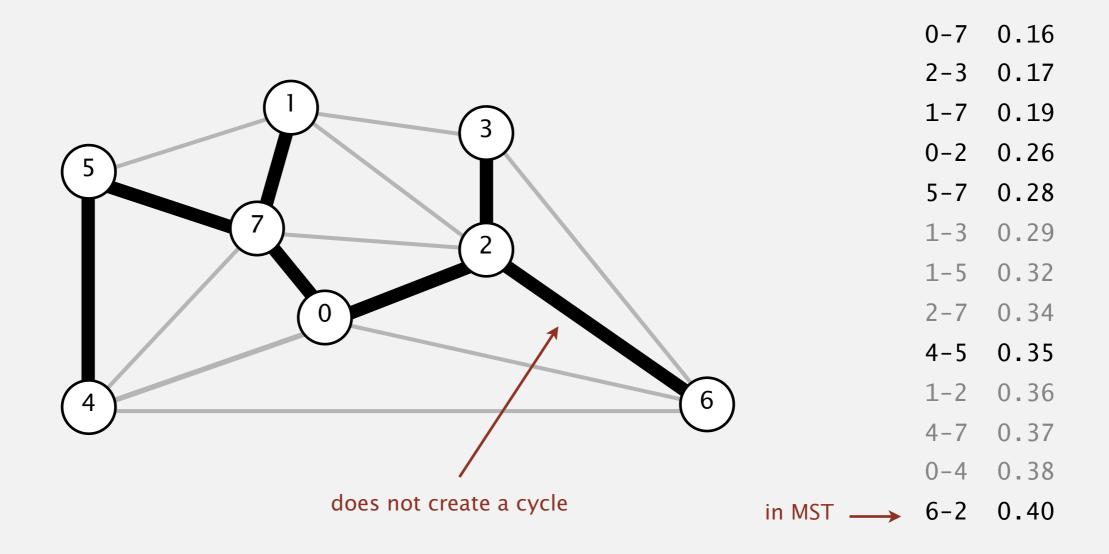
Consider edges in ascending order of weight.



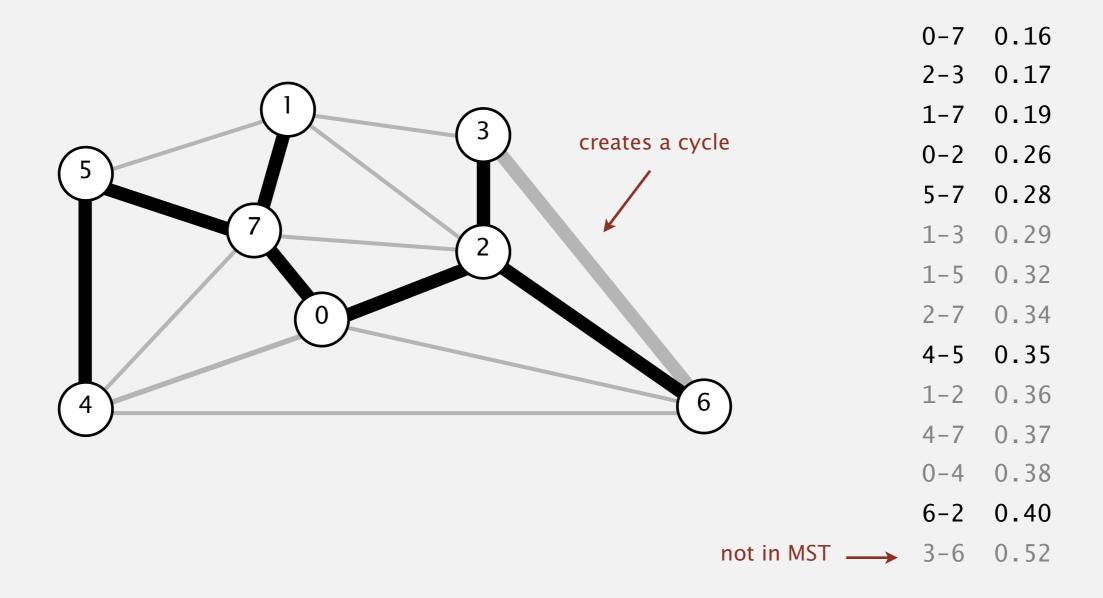
Consider edges in ascending order of weight.



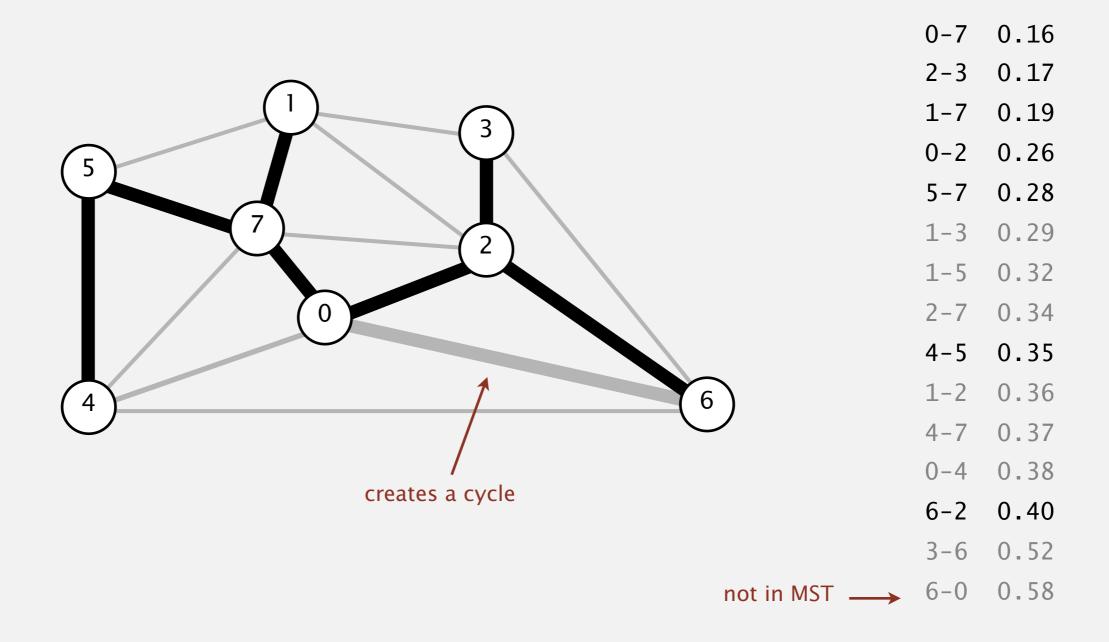
Consider edges in ascending order of weight.



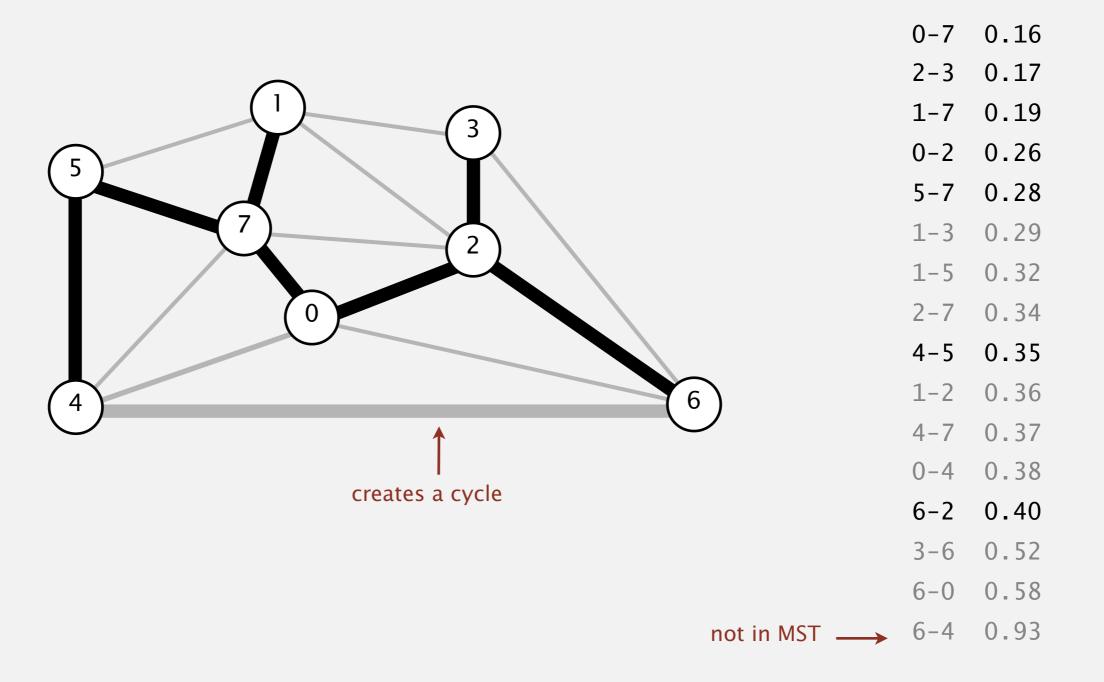
Consider edges in ascending order of weight.



Consider edges in ascending order of weight.

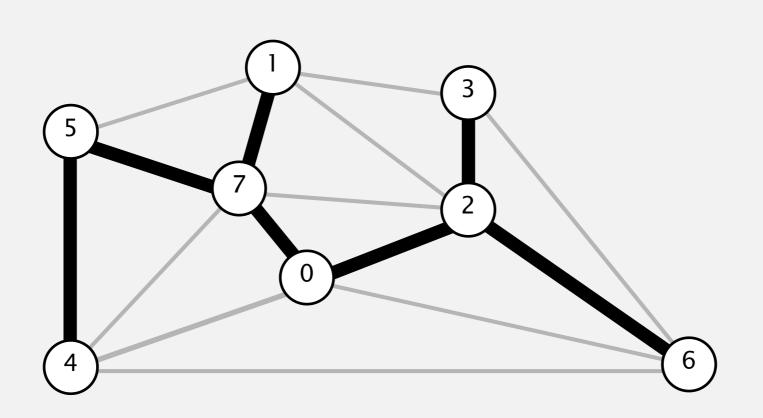


Consider edges in ascending order of weight.



Consider edges in ascending order of weight.

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



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 1-2 0.36 4-7 0.37 0-4 0.38 6-2 0.40 3-6 0.52 0.58  $6-4 \quad 0.93$