Kruskal's Algorithm Demo
Kruskal's algorithm demo

Consider edges in ascending order of weight.

- Add next edge to tree $T$ unless doing so would create a cycle.
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![Graph with edges labeled and selected edge highlighted]

in MST  $0-7$  0.16

does not create a cycle
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![Diagram of a graph with edges labeled and weights. Edges 0-7 and 2-3 are highlighted in red, indicating they are part of the minimum spanning tree (MST).]
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0-7 0.16
2-3 0.17
1-7 0.19
0-2 0.26

does not create a cycle
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0-7  0.16
2-3  0.17
1-7  0.19
0-2  0.26
5-7  0.28

In MST
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0-7 0.16
2-3 0.17
1-7 0.19
0-2 0.26
5-7 0.28
1-3 0.29

creates a cycle

not in MST

creates a cycle
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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

creates a cycle
not in MST
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a minimum spanning tree