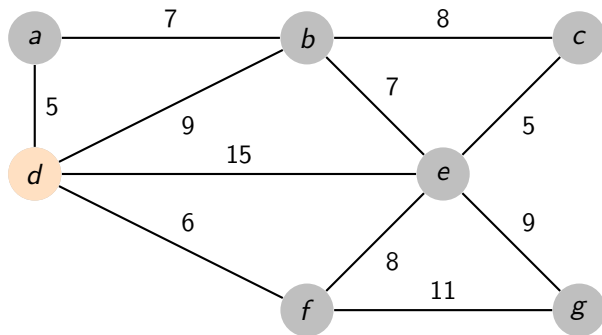


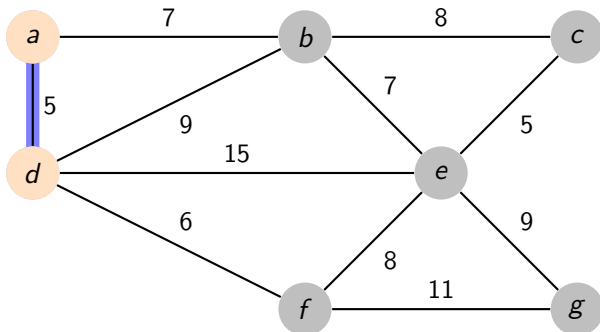
Dijkstra's Shortest Path and Prim's Minimum Spanning Tree

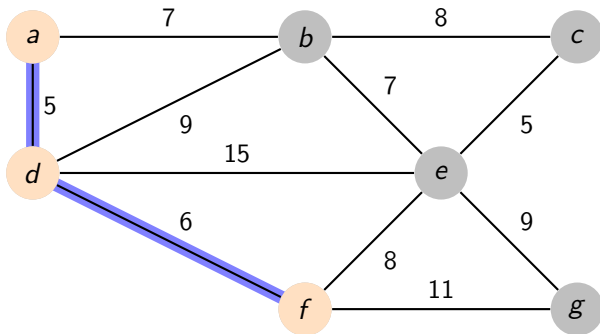
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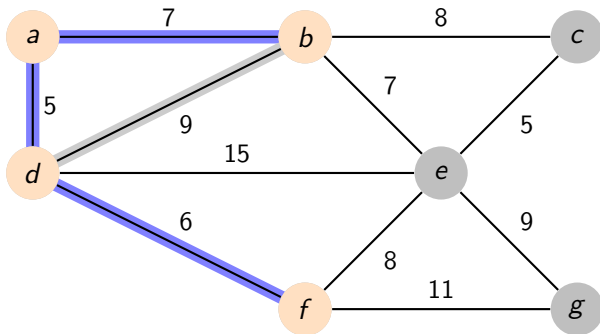
University of Illinois Urbana-Champaign

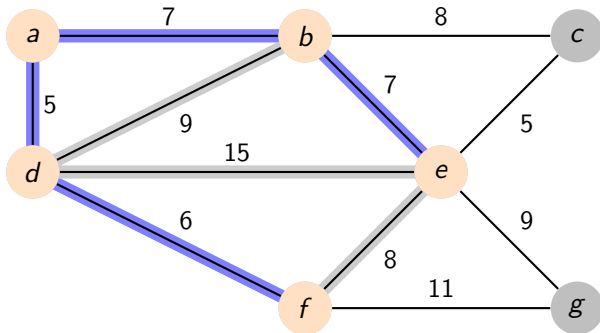
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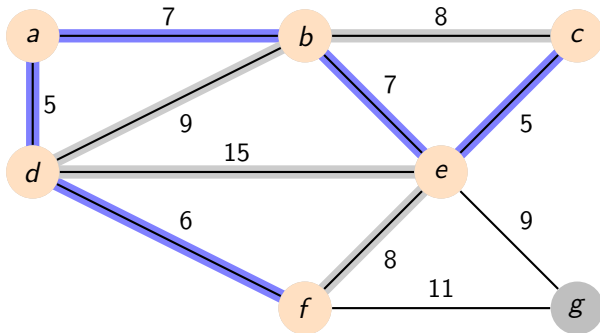


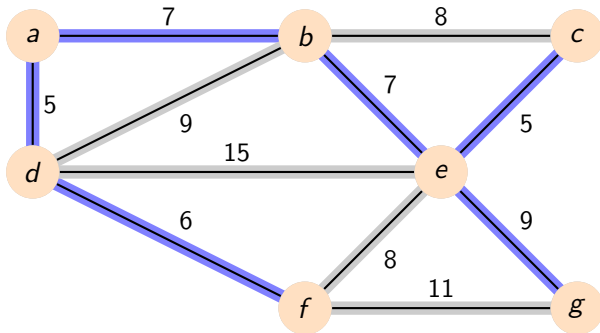












Dijkstra's Table

A	B	C	D	E	F	G
0	∞	∞	∞	∞	∞	∞
—	7_A	∞	5_A	∞	∞	∞
—	7_A	∞	—	20 _D	11 _D	∞
—	—	15 _B	—	14 _B	11_D	∞
—	—	15 _B	—	14_B	—	22 _F
—	—	15_B	—	—	—	22 _F
—	—	—	—	—	—	22_F

Distance: A-G= 22

Path: A-D-F-G