

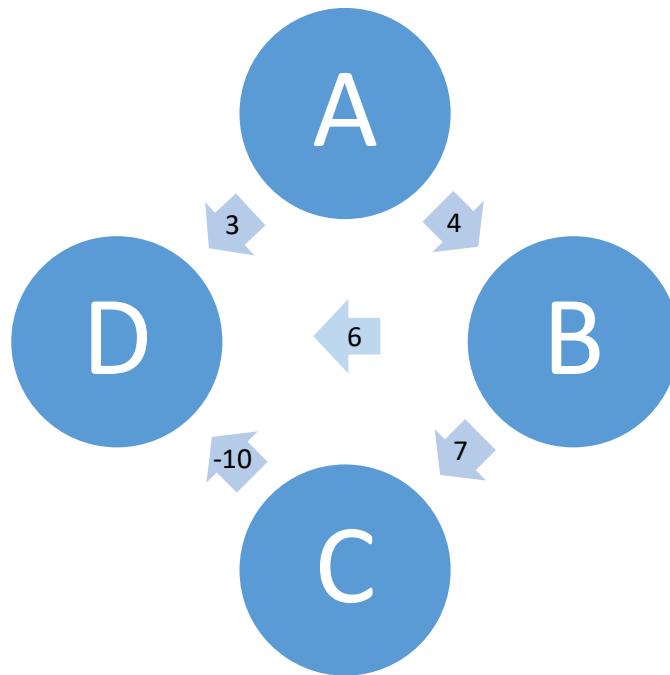
Algorithms and Data Structures

Homework 11

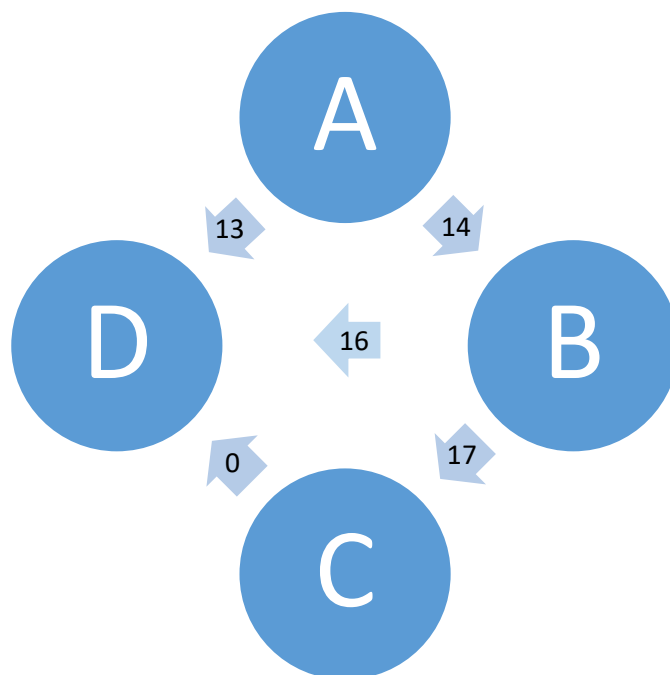
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Problem 1



Before adding a constant to each weight, the shortest path would be A-B-C-D. If we add 10 to each edge weight we get:



And after this addition our Dijkstra's algorithm will give us that the shortest path is directly from A-D.