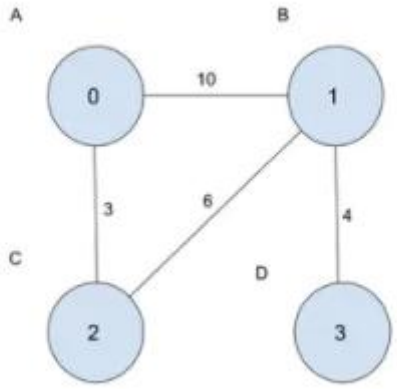
Shortest Path Between Routers

My project will be in python language. An adjacency list is probably the best data structure to represent a set of connected vertices to find the shortest path from one vertex to another. One application for shortest paths is in mapping. Another common application for its use is in computer networking routing to find the shortest trip for a packet.

STEP BY STEP

- Analyze the shortest distance problem and Create the Python Edge Class.
- Create an Adjacency List using a Python Dictionary where each entry is a List.
- Add a Python function to find minimum distance between the source vertex and the other vertices.
- Add the Python function to find the shortest paths to each vertex from the source vertex.
- Add the function to populate the adjacency list of edges from a file using a Python Dictionary container.



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