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91. Single Source Shortest Paths: Dijkstra's Algorithm
Program:
import heapq
def dijkstra(graph, start):
  distances = {node: float('infinity') for node in graph}
  distances[start] = 0
  queue = [(0, start)]
  while queue:
    current_distance, current_node = heapq.heappop(queue)
    if current_distance > distances[current_node]:
      continue
    for neighbor, weight in graph[current_node].items():
      distance = current_distance + weight
      if distance < distances[neighbor]:</pre>
        distances[neighbor] = distance
        heapq.heappush(queue, (distance, neighbor))
  return distances
# Example graph
graph = {
  'A': {'B': 5, 'C': 3},
  'B': {'A': 5, 'C': 2, 'D': 1},
  'C': {'A': 3, 'B': 2, 'D': 4},
  'D': {'B': 1, 'C': 4}
}
start_node = 'A'
shortest_distances = dijkstra(graph, start_node)
print(shortest_distances)
        {'A': 0, 'B': 5, 'C': 3, 'D': 6}
        === Code Execution Successful ===
Output:
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Time complexity: O((V + E) * log(V))