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96. Boruvka's Algorithm
Program:
def boruvka(graph):
  mst = []
  subsets = [[i] for i in range(len(graph))]
  while len(mst) < len(graph) - 1:
    cheapest = [None] * len(graph)
    for i in range(len(graph)):
       for j in range(len(graph[i])):
         if i != j:
           root_i = find(subsets, i)
           root_j = find(subsets, j)
           if root i!= root j:
              if cheapest[root_i] is None or graph[i][j] < graph[cheapest[root_i]][root_i]:</pre>
                cheapest[root i] = j
              if cheapest[root_j] is None or graph[i][j] < graph[cheapest[root_j]][root_j]:</pre>
                cheapest[root_j] = i
    for i in range(len(graph)):
       if cheapest[i] is not None:
         root i = find(subsets, i)
         root_j = find(subsets, cheapest[i])
         if root_i != root_j:
            mst.append([i, cheapest[i], graph[i][cheapest[i]]])
           union(subsets, root_i, root_j)
  return mst
def find(subsets, node):
  for i in range(len(subsets)):
    if node in subsets[i]:
       return i
def union(subsets, a, b):
  subsets[a] += subsets[b]
  subsets.pop(b)
# Example Usage
graph = [
  [0, 2, 0, 6, 0],
  [2, 0, 3, 8, 5],
  [0, 3, 0, 0, 7],
  [6, 8, 0, 0, 9],
  [0, 5, 7, 9, 0]
]
minimum_spanning_tree = boruvka(graph)
print(minimum_spanning_tree)
Output:
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[[0, 2, 0], [1, 0, 2], [3, 2, 0], [4, 0, 0]]
=== Code Execution Successful ===

Time complexity: O(Elog V)