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Program:
import sys
def prims_algorithm(graph, vertices):
  selected_node = [False] * vertices
  selected_node[0] = True # Start from the first vertex
  edges = 0
  print("Edge : Weight")
  while edges < vertices - 1:
    minimum = sys.maxsize
    x = 0
    y = 0
    for i in range(vertices):
      if selected_node[i]:
         for j in range(vertices):
           if (not selected_node[j]) and graph[i][j]: # Not selected and there is an edge
             if minimum > graph[i][j]:
                minimum = graph[i][j]
                x, y = i, j
    print(f''\{x\} - \{y\} : \{graph[x][y]\}'')
    selected_node[y] = True
    edges += 1
# Input number of vertices
vertices = int(input("Enter the number of vertices: "))
# Input graph as an adjacency matrix
graph = []
print("Enter the adjacency matrix:")
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for i in range(vertices):

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graph.append(list(map(int, input().split())))
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Execute Prim's algorithm
prims_algorithm(graph, vertices)

Output:

