```
import java.util.*;
public class Prim {
  public static void main(String[] args) {
     Scanner sc = new Scanner(System.in);
     System.out.println("Enter the number of vertices");
     int n = sc.nextInt(), minCost = 0, edges = 0;
     int[][] cost = new int[n][n];
     boolean[] visited = new boolean[n];
     System.out.println("Enter the cost matrix");
     for (int i = 0; i < n; i++)
       for (int j = 0; j < n; j++) {
          cost[i][j] = sc.nextInt();
          if (cost[i][j] == 0 && i != j) cost[i][j] = 999; // No edge
       }
     visited[0] = true;
     PriorityQueue<int[]> pq = new PriorityQueue<>(Comparator.comparingInt(a -> a[1]));
     for (int j = 1; j < n; j++)
        if (cost[0][j] != 999) pq.add(new int[]{j, cost[0][j]});
     while (edges < n - 1 && !pq.isEmpty()) {
        int[] edge = pq.poll(), u = edge[0], weight = edge[1];
        if (!visited[u]) {
          visited[u] = true; minCost += weight; edges++;
          System.out.println((edges) + " edge(0," + u + ") = " + weight);
          for (int j = 0; j < n; j++)
             if (!visited[j] && cost[u][j] != 999) pq.add(new int[]{j, cost[u][j]});
       }
     }
     System.out.println("The minimum cost of spanning tree is " + minCost);
  }
}
```