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Prims
import java.util.Scanner;
class prims {
  static int arr[][] = new int[20][20];
  static int n;
  static Scanner sc = new Scanner(System.in);
  public static void main(String args[]) {
    printsolution();
    prim();
  }
  static void printsolution() {
    System.out.println("Enter the number of nodes");
    n = sc.nextInt();
    System.out.println("Enter the adjacency Matrix");
    for (int i = 1; i \le n; i++) {
       for (int j = 1; j \le n; j++) {
         arr[i][j] = sc.nextInt();
         if (arr[i][j] == 0) {
            arr[i][j] = 999;
         }
       }
    }
  }
  static void prim() {
    int visited[] = new int[20];
    int ne = 1, i, j, a = 0, b = 0, u = 0, v = 0, min = 0;
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int mincost = 0;

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visited[1] = 1;
     while (ne < n) {
       for (i = 1,min=999; i <= n; i++) {
         for (j = 1; j <= n; j++) {
            if (arr[i][j] < min) {
              if (visited[i] != 0) {
                 min = arr[i][j];
                 a = u = i;
                 b = v = j;
              }
            }
         }
       }
       if (visited[u] == 0 | | visited[v] == 0) {
         System.out.println("Edge " + ne++ + " (" + a + "," + b + ") cost: " + min);
         mincost += min;
         visited[b] = 1;
       }
       arr[a][b] = arr[b][a] = 999;
    }
    System.out.println("The Minimum cost is " + mincost);
  }
}
```