RESOLUÇÃO (DIAGRAMA DE CLASSES):

```
public class App
                       algorithms dijkstra = new algorithms();
                       dijkstra.Dijkstra(v1);
                       System.out.println(dijkstra.getShortestPathTo(v2));
                       algorithms BellmanFord = new algorithms();
                       BellmanFord.BellmanFord(edgeList, vertexList);
                       BellmanFord.getShortestPathTo(vertexList.get(0), vertexList.get(3));
                                               public class algorithms
                     private List<Vertex> vertexList;
                     private List<Edge> edgeList;
                   BellmanFord(List<Edge> edgeList, List<Vertex> vertexList)
                   Dijkstra(Vertex sourceVertex)
                   getShortestPathTo(Vertex targetVerte)
                   getShortestPathTo(Vertex sourceVertex, Vertex targetVertex)
                   hasCycle(Edge edge)
                public class Edge
                                                                                 public class Vertex
                                                                   private String name;
                                                                   private boolean visited;
   private double weight;
                                                                   private List<Edge> edges;
   private Vertex startVertex;
                                                                   private double minDistance =
   private Vertex targetVertex;
                                                                     Double.MAX VALUE;
                                                                   private Vertex previousVertex;
Edge(double weight, Vertex startVertex, Vertex
targetVertex)
                                                                 addNeighbour(Edge edge)
```