#### P – Center Algorithm

Step 1 Choose any point x on the graph and find a farthest point, call that point e1 (exremum point 1)

Run Dijkstra from point x to all other points on the graph and pick the point with the largest shortest path from x

Step 2 Find a farthest point from e1, call it e2 (extremum point 2)

■ Run Dijkstra from point e1 to all other points on the graph and pick the point with the largest shortest path from e1

Step 3 The Absolute Center (AC) of the graph is at the midpoint of the path connecting e1 to e2

Work back along the path until you cover half the distance

If the AC is along an edge of the graph, the Vertex Center (VC) will be at the node closest to the AC

















