## Generalisation: Finding shortest paths between all pairs of nucles Often we're interested in the shortest paths

- · Often we've interested in the shortest paths between all pairs of nodes, not just the ones from one distinguished node to the others (see lab 12).
- The solution is simple: We just run Dijhstra inside a loop where each time around the start vertex is a different one, until every vertex has been the start vertex. This gives us the shortest paths between all pairs.

for (int startNode = 0; startNode < graph.size; startNode+)
Dijhstra (& graph, weights, startNode);

