

# Floyd-Warshall Algorithm

## Running Time?

```
FloydWarshall(G):
6   Let d be a adj. matrix initialized to +inf
7   foreach (Vertex v : G):
8       d[v][v] = 0
9   foreach (Edge (u, v) : G):
10      d[u][v] = cost(u, v)
11
12  foreach (Vertex u : G):
13      foreach (Vertex v : G):
14          foreach (Vertex w : G):
15              if d[u, v] > d[u, w] + d[w, v]:
16                  d[u, v] = d[u, w] + d[w, v]
```