```
106. Floyd algorithm
Program:
INF = float('inf')
def floyd_warshall(graph):
  n = len(graph)
  dist = [[INF for _ in range(n)] for _ in range(n)]
  for i in range(n):
    for j in range(n):
       dist[i][j] = graph[i][j]
  for k in range(n):
    for i in range(n):
       for j in range(n):
          dist[i][j] = min(dist[i][j], dist[i][k] + dist[k][j])
  return dist
# Example graph represented as an adjacency matrix
graph = [
  [0, 5, INF, 10],
  [INF, 0, 3, INF],
  [INF, INF, 0, 1],
  [INF, INF, INF, 0]
]
```

```
result = floyd_warshall(graph)
for row in result:
    print(row)
```

OUTPUT:

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[0, 5, 8, 9]
[inf, 0, 3, 4]
[inf, inf, 0, 1]
[inf, inf, inf, 0]
=== Code Execution Successful ===
```

Time complexity: O(n^3)