

Homework 7 Solutions

1.

```
floyd-warshall(mat[0..n-1][0..n-1])  // mat[][] is G's weight adjacency matrix
{
    for (int k = 0; k < n; ++k)
        for (int i = 0; i < n; ++i)
            for (int j = 0; j < n; ++j)
                if (mat[i][k] < inf && mat[k][j] < inf) // avoid + with inf
                    mat[i][j] = min(mat[i][j], mat[i][k] + mat[k][j]);
    return mat;
}
```

2.

```
p2(string s)
{
    return lcs(s, s.reverse());
}
```