Part 1: Algorithm for Transitive Closure

Using Warshall’s algorithm, write a java method that takes a single Boolean matrix parameter and returns the Boolean matrix for the transitive closure of the relation associated with the parameter matrix. Make up a relation to test your function and test it. (Note, since we start with a matrix for the relation, we know it is on a finite set.)
Part 2: Analysis of the Algorithm for Transitive Closure

Analyze the code for the algorithm in part 1 to find the best asymptotic bound on the execution time for the Transitive Closure function for an n x n matrix. (That is, find the best big-O bound on the running time for the function that you wrote in part 1)