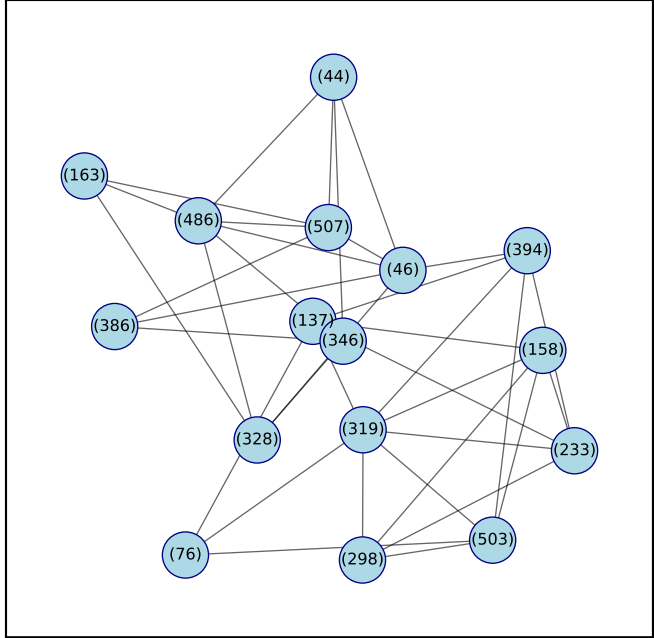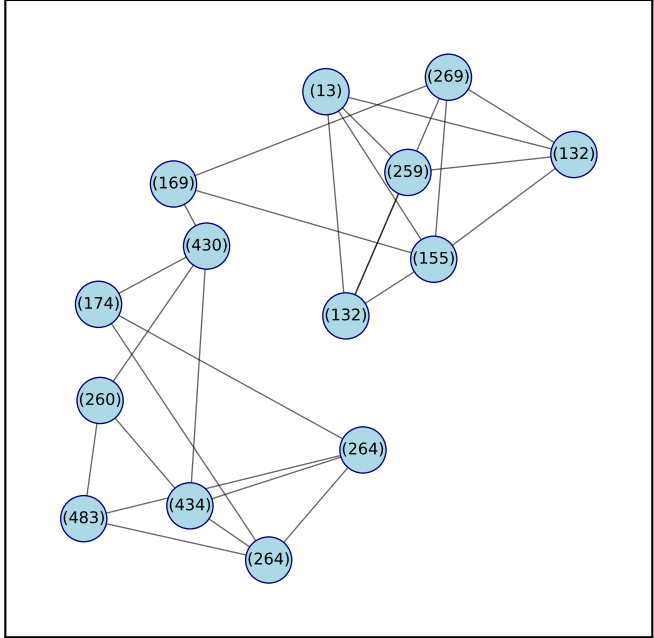generated dat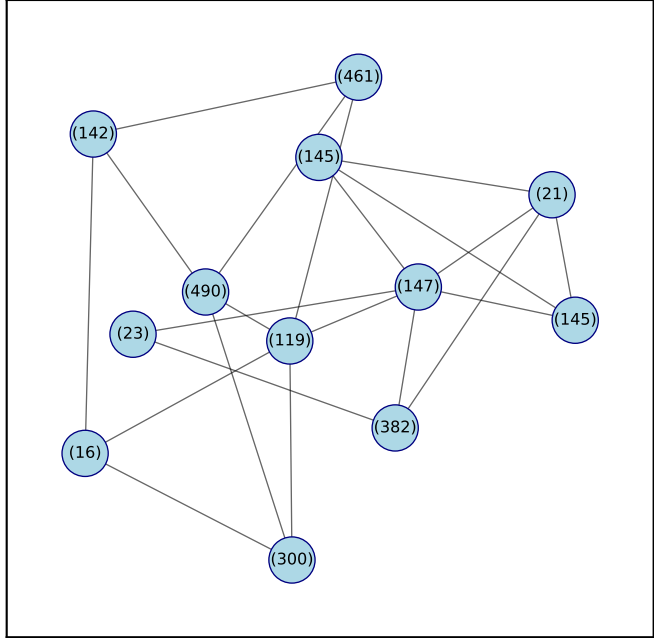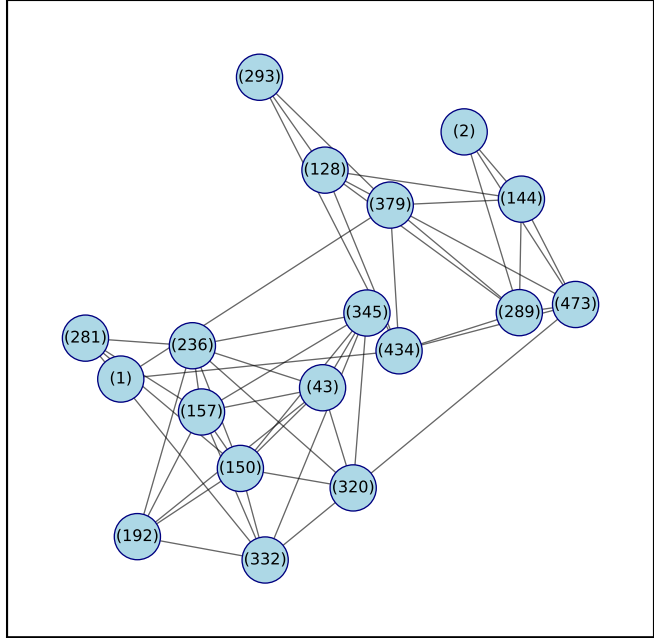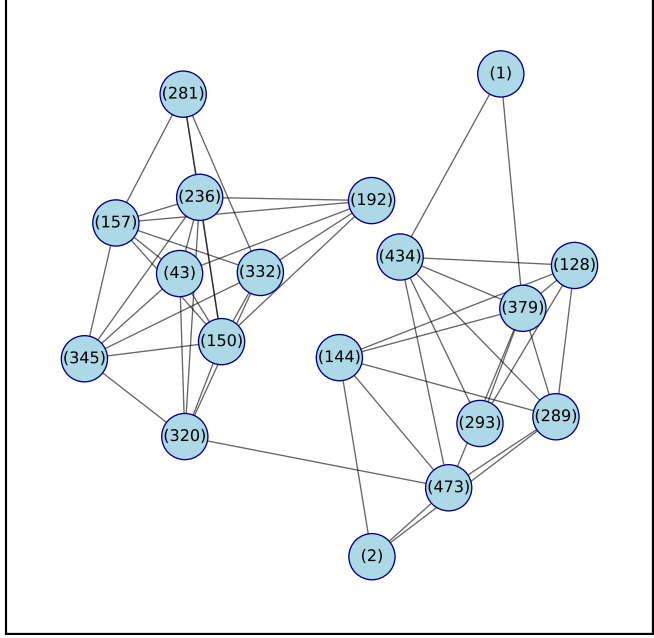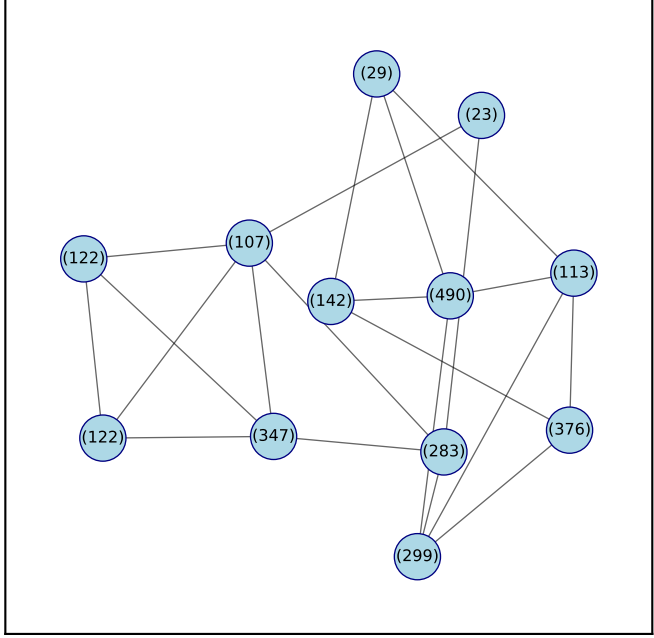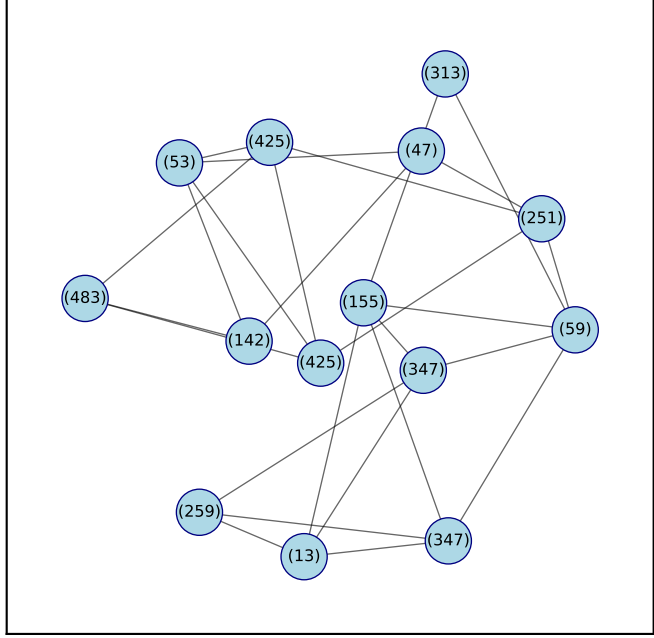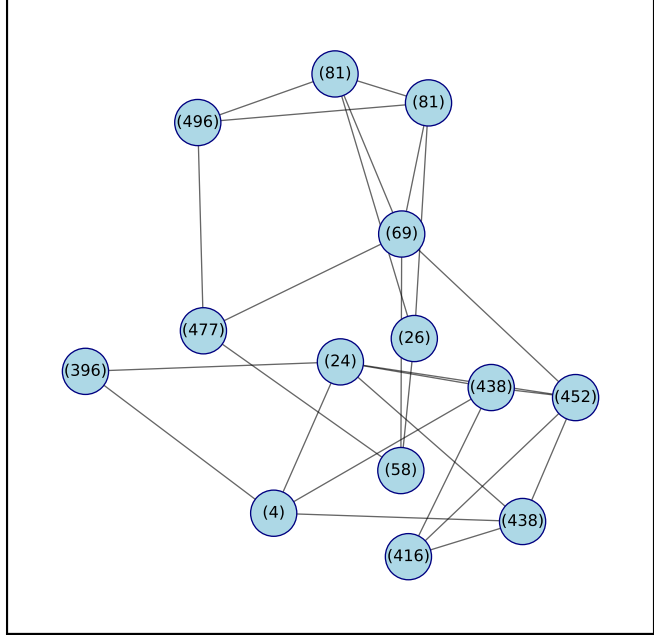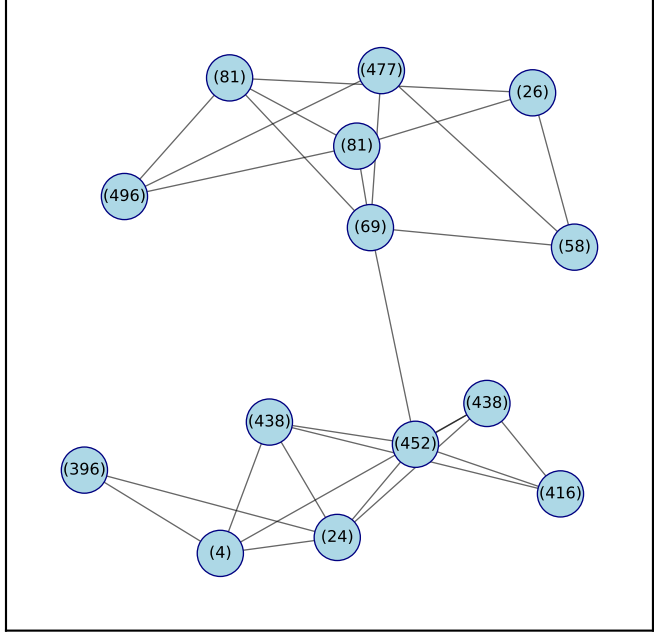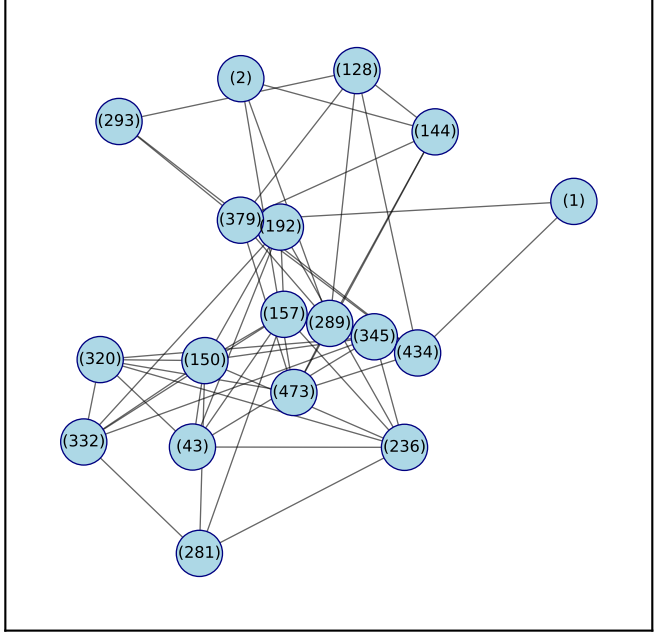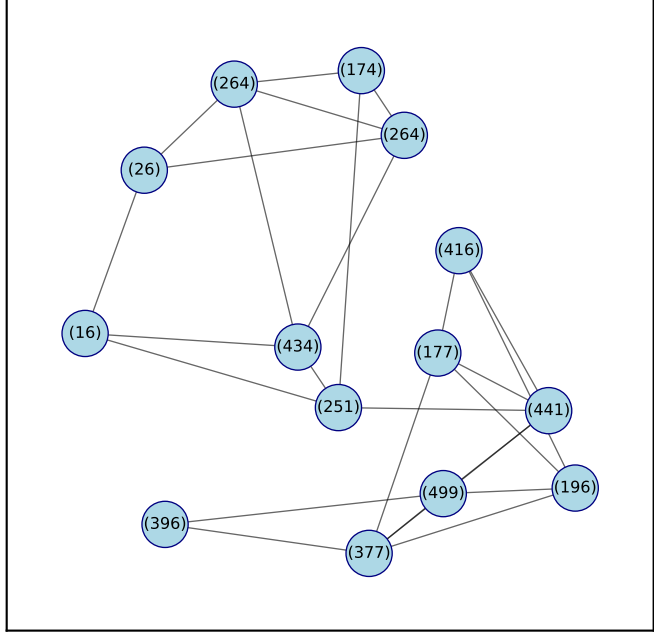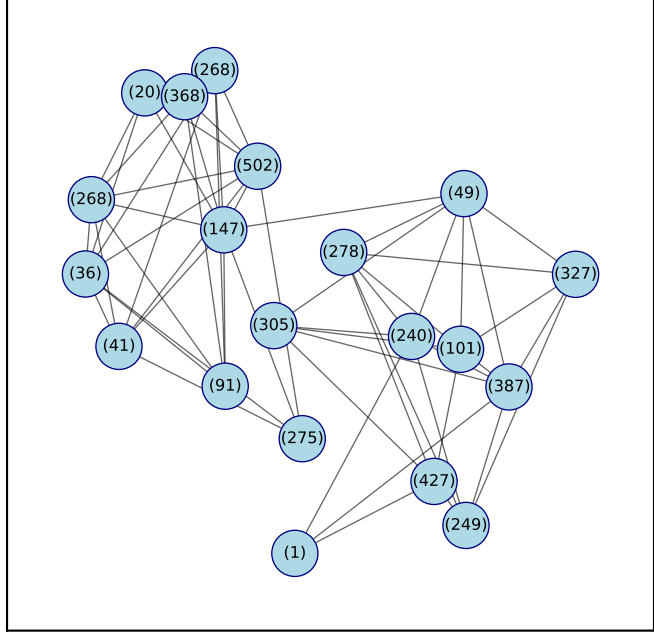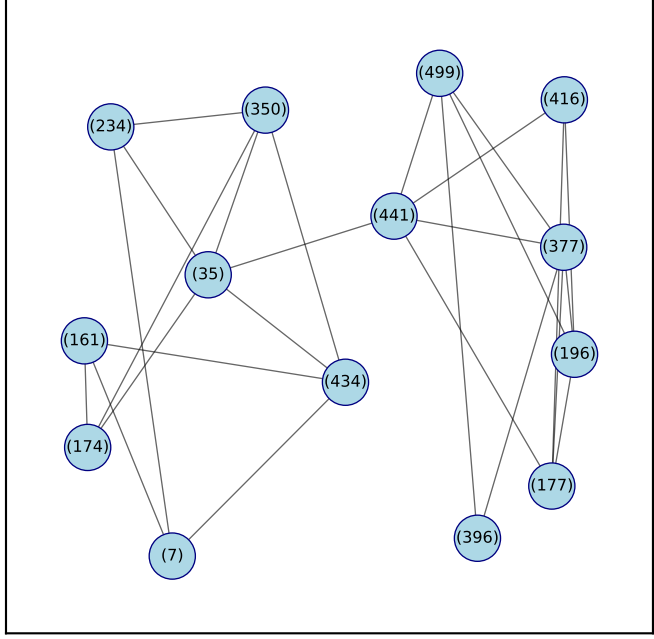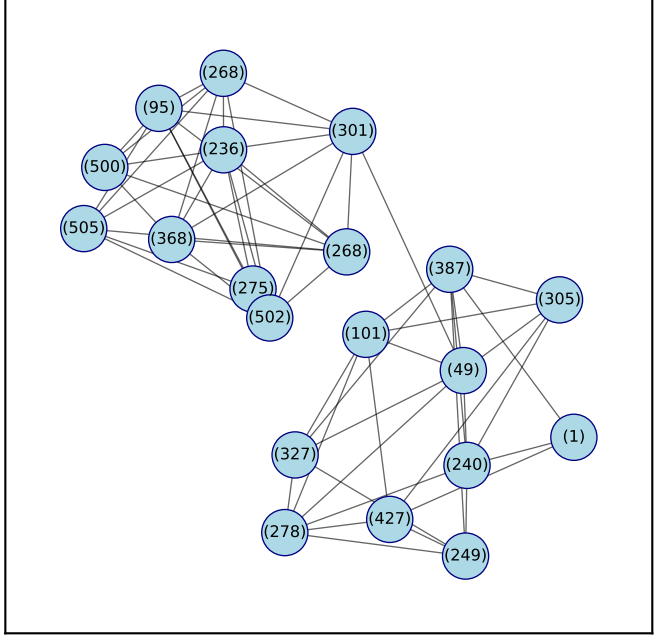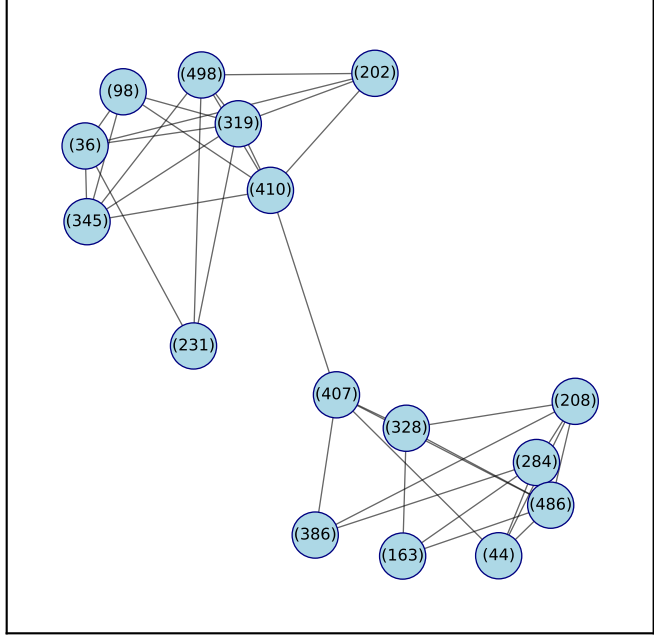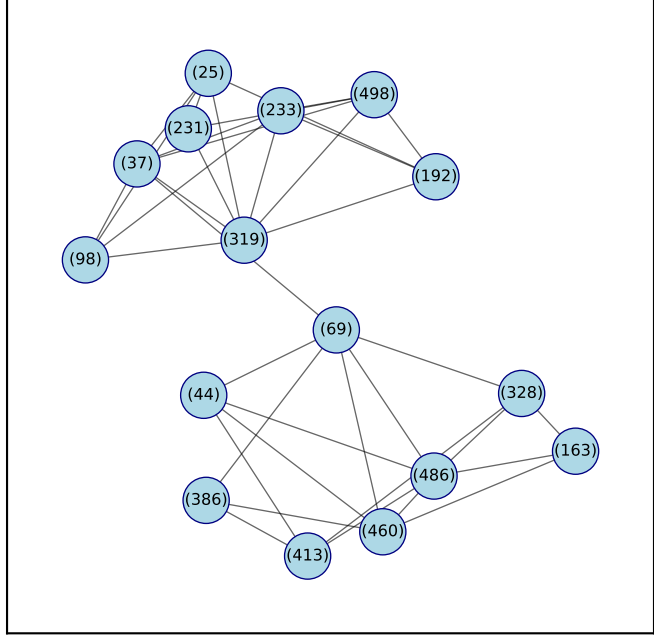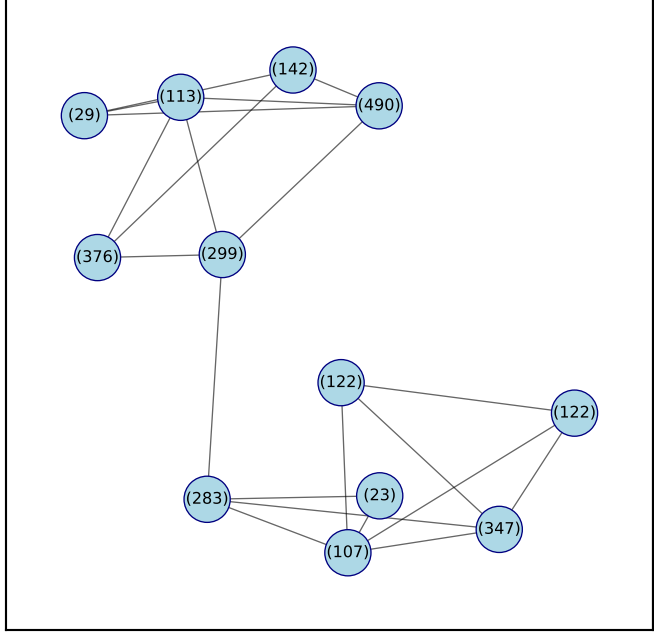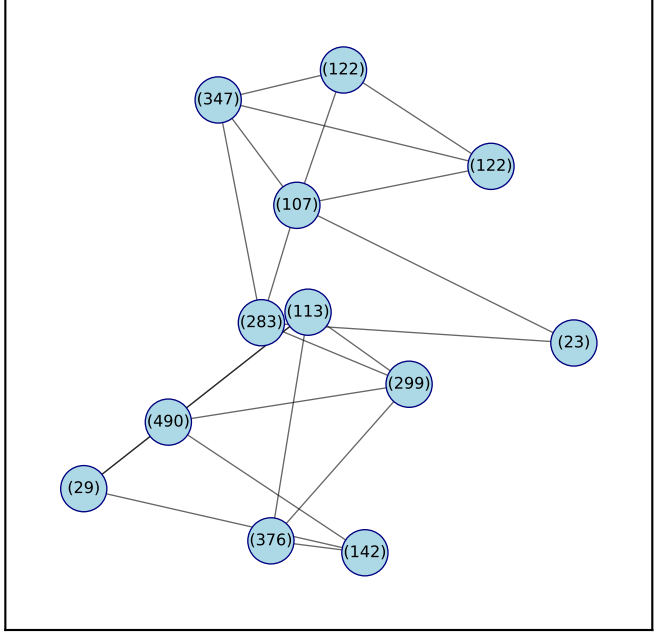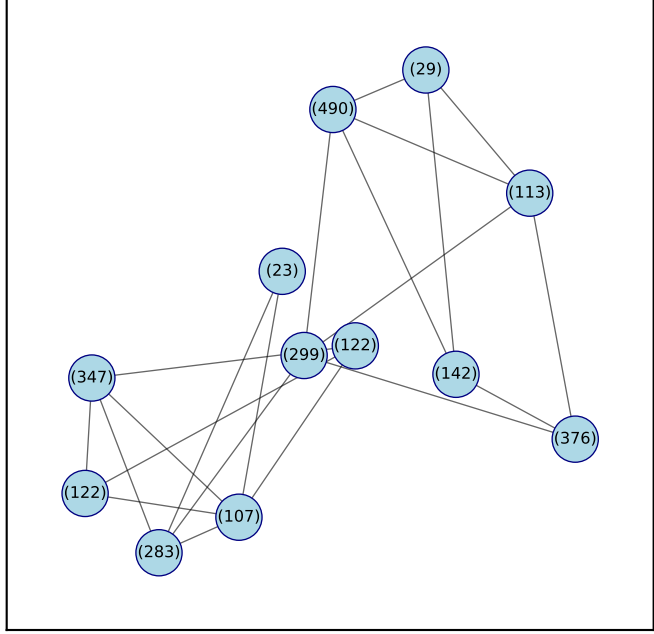a