

Toy Example

You work for some spy agency, and you want to listen in on all the phone calls happening in Urbana.

You can put bugs in cellphones, and the bugs will let you listen to any conversation that takes place using that cellphone.

You know which people call which people, and so you can try to use that information to reduce the number of bugs you need to buy and install.

You assume everyone has exactly one cellphone and all calls are made using cellphones to cellphones.

Formulate this as a graph problem.