

## The Collaborators

A few years ago, and at a different university, Professor Jones was giving an exam in the computer lab. A few days later, the system administrator came to Professor Jones' office and showed him records of E-Mail traffic. It was clear from these records that two students sitting in the back row were exchanging E-Mail during the exam. Professor Jones couldn't remember where everyone was sitting, but he knew that there were five students sitting in the back row, and their names were Arthur, Bill, Connie, Dave, and Elaine. He called the five students together and questioned them. The five students made the following comments. It turns out that one of the collaborators was completely truthful, and everything the other one said was a lie. We don't know anything about the truthfulness of the other students. Who were the cheaters?

Arthur: It wasn't me, I don't even know how to send E-Mail. It wasn't Bill either.

Bill: I didn't cheat. Elaine is lying about me and Arthur.

Connie: I don't have any idea who was cheating. Everything that Dave says is a lie.

Dave: Connie is wrong when she says I always lie. Arthur wasn't cheating.

Elaine: Arthur and Bill were cheating. Not everything that Dave says is a lie.