

Isle of Knights and Knaves

On the Isle of Knights and Knaves, Knights always tell the truth, and Knaves always lie. However it is not immediately obvious who is a Knight and who is a Knave. You encounter Albert, Betty, and Carla, whom are each either Knights or Knaves.

Albert says: *"Betty is a Knight, but Carla is a Knave."*

Betty says: *"Two of us are Knights."*

Carla says: *"Albert and I are both Knights."*

1. Is Carla a Knave?
2. Prove that Albert and Betty are either both Knights or both Knaves.