

CSE-103

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Subject: Assignment from Book.

Chapter no.:1

Section no.:2

Exercise no.: 35

35. A detective has interviewed four witnesses to a crime. From the stories of the witnesses the detective has concluded that if the butler is telling the truth then so is the cook; the cook and the gardener cannot both be telling the truth; the gardener and the handyman are not both lying; and if the handyman is telling the truth then the cook is lying. For each of the four witnesses, can the detective determine whether that person is telling the truth or lying?

Explain your reasoning.

Answer:

The detective can determine that the butler and cook are lying because the gardener or the handyman is telling truth but cannot determine whether the gardener is telling the truth or whether the handyman is telling the truth because of lack of information.