

CSE 103:

DISCRETE MATHEMATICS

CHAPTER: 1, SECTION: 1

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Question #50

An ancient Sicilian legend says that the barber in a remote town who can be reached only by traveling a dangerous mountain road shaves those people, and only those people, who do not shave themselves. Can there be such a barber?

Answer: The barber's said legend is a made-up story, as such a barber **cannot exist** due to logical flaw.

It is said that the barber only shaves people who do not shave themselves. This is clearly a flawed logic, as people who never shave themselves don't even need a shave, even from a legendary barber. As these bearded men don't shave, the said barber is unnecessary in this plot. So, it is safe to assume that the barber does not exist/ there cannot be such a barber.