37. Suppose there are signs on the doors to two rooms. The sign on the first door reads "In this room there is a lady, and in the other one there is a tiger"; and the sign on the second door reads "In one of these rooms, there is a lady, and in one of them there is a tiger." Suppose that you know that one of these signs is true and the other is false. Behind which door is the lady?

Solution:

If the first sign were true then the second sign would also be true. In that case, we could not have a true sign and a false sign. Therefore, the second sign is true and the first is false.

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