


## Questions - Logic

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1. Tanvir wants to figure out the relative salaries of three coworkers: Gurkiran, Amit, and Tanvir, based on two facts. First, he knows that if Tanvir is not the highest paid, then Gurkiran is. Second, he knows that if Gurkiran is not the lowest paid, then Amit is the highest paid. Can Tanvir determine who earns the most and who earns the least based on this information? If so, who has the highest salary and who has the lowest? Explain your reasoning.
  
2. 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?
  
3.  
On a certain island, there are only two types of islanders: knights, who always tell the truth, and knaves, who always lie. You meet two islanders as Gurkiran Ma’am and Tanvir Ma’am. According to their statement, determine the type of both the islanders.  
  

 Gurkiran Ma’am says, ‘We are both the same type of people,’ and Tanvir Ma’am says, ‘We are each different types of people.’