Assume two friends (Red and Blue) are going on a camping vacation together. Red hates heights and Blue loves them. They propose to pitch camp at one intersection of a N-S and an E-W road; there are 4 of each. To settle their difficulty about how high up the camp should be, they agree that Red can decide which N-S road to choose, while Blue can pick the E-W road. Choices are independent, each will be made and sealed in an envelope, and they will be opened simultaneously.

Assuming Red wants the lowest possible site, and Blue the highest, and assuming both players are equally intelligent, and assuming there are no other factors to consider, which road should Blue pick and which road should Red pick, and why?