Term Project Proposal

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Task Question: Using two players as prisoners, what is the best solution for both of them to escape prison according to a series of same choices offered by police officers and given the fact that they have no way of communicating together once caught?

Graphs: The graphs we will present at the end will represent the level of chances for the prisoners depending on certain outcomes. For example, one graph will be represented by the level of chance of being thrown in prison depending on the decision of one of the captured prisoners. There will be one graph present for each scenario present in our introduction (also known as the options which the police officers will give our two future inmates).

Correlation: The graph will answer the task question since once we put all the graphs next to each other, it will offer a clear representation to the inmates on which choice they should go forward with whilst planning their big heist in order to avoid going in prison. We will also be using game theory in order to solve this problem, as well as matrices in order to create graphs and samples.

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