Parcial 1 - Help the leaders – Brute force & Backtracking

* Description of the algorithm - why does it work?

The algorithm has a basic function of reading the inputs, sorting them from longest to shortest, making the combinations of the topics and then deleting the combinations that have pairs that are not allowed to be together. Although, the code is rather complex, this is because of the nature of backtracking. It does the basic thing the algorithm was already supposed to do, but it double checks everything before making any decision.

* Description of the backtracking mechanism: what is the criterion you use to define that it does not make sense to continue with the exploration of the solution and the last decision made should be undone?

This is explained inside the code, from lines 78 to 82

The code can be found in this link.

* How would the algorithm change if instead of asking for all solutions it asked for one solution? Justify your answer.