CS 170 Project Phase II

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our program is an implementation of Local search.

we start with a list of vizands, [w...wn], and

their constraints which use to make a mapping of

each witere to a list of their constraints.

we then create a new 18th of the wizers sorted by their humber of constraints, sorted-wizers, [w...wn]. Then for every wizerd, storting with the wizers with the most constraints, we check how many constraints are violated when they are in every possible position in witerds we then place them in the spot that violated the least amount of constraints.

we keep doing this for all wizords while a solution is not found, or we go a full iteration of placing all the wizords that doesn't change the amount of constraints violated, in which case we shuffle the wizords and start again.

This is done conculinally on all possible cpu cores, and when one sinds a solution, they all stop.