I am trying to make a schedule maker.

Problem:

I have to organize the labor of between 17 and 200 house members. Each member has either 4 or 5 hours (depending on the type of schedules I want to make). Labor can be either scheduled labor or flex labor. Schedule labor has to be completed at a specific time—cooking dinner, cleaning after the kitchen— and flex labor has to be completed at some point during the week— cleaning the bathrooms, common areas.

Note: some labor may require more than one person at a time (two people cook dinner at the same time, and two people clean the kitchen after dinner).

I gathered the information from the house member and placed it in a .csv file in the following format

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Dinner Monday (2 hours, 2 slots) | Dinner clean Monday (2 hours, 2 slots) | Mid-day cleaning  Tuesday (1 hour, 1 slot) | Dinner Monday | Dinner clean Monday | Cleaning commons |
| Adam | Available | Unavailable | Available | Unavailable | Available | avaliable |
| Abby | Unavailable | Available | Unavailable | Available | Unavailable |  |
| Tinna | Available | Unavailable | Available | Unavailable | Available |  |
| ... |  |  |  |  |  |  |