

Names:

1. Find a counterexample that proves the following algorithm for the Room Minimization problem is not optimal: Greedily schedule each room individually, in sequence. (e.g., Assign as many courses as possible to room 1, then as many courses as possible to room 2,...). A drawing of a counterexample is sufficient.

2. After discussing with your group, what is an idea you have for an algorithm? Why do you think it may work as an optimal algorithm?

3. Prove that the algorithm presented in class is optimal.