Due on February 10, beginning of class with Problem Set #2.

**Challenge Question:** Professor Kirlin posed this question and it seemed relevant to our course.

Professor X assigns lots of group assignments. He prefers that students get to work with as many different people throughout the semester as possible. Design an algorithm that takes as input the number of times $n$ students have worked together and creates $k$ groups of about equal size. I'm not sure if there is a polynomial time algorithm to solve this, but if you find one, describe your algorithm (and its run time) and why it is correct. If you're unable to find a polynomial time algorithm, tell me why you think it is not possible. Any points earned from answering this question will be added to your homework grade.