

Homework 9 Problem 2 Solution

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Problem 2.

Let us number the people 1 through 5. Each of the people 1 through 4 has 4 friends, meaning they are friends with everybody, since there are only 5 people in total. Then they are each in particular friends with person 5. But then person 5 is also friends with everybody, and cannot only have 2 friends. So the answer is impossible.