

Problem 7 (due Monday, December 7)

A female soccer club has 23 players. The strength of each player is a positive integer assigned to the player based on her performance in the last 3 seasons. It turns out that leaving any player aside, the remaining 22 players can be divided into two teams of 11 so that the sum of strengths of all players in each team is the same. Prove that all players have the same strength.

Only one solution was received, from Yuqiao Huang. His solution is essentially the same as ours. The solution and some additional remarks are contained in the following link [Solution](#)

From:

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