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An equilibrium point for The 3-person Morra Game

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The Game of Morra is a popular and ancient game where the players secretly choose numbers and then try to guess the total sum of the numbers chosen. Given a general divisibility condition on the numbers available to each player we can find an equilibrium point for this game and compute the expected payoff for each player. This computation allows to study cases where the payoff for each player is zero, even when their available numbers are different.