Q: I was thinking of devising one for later frounds of Mathathon based on the Sprague-Grundy theorem, involving multiple lists of numbers and the the ability to subtract, for example, either I or any even number & N; where N; is the number on the top of the ith pile, from an arbitrary pile of the player's choice each time. The constraints of the game can be modified and made more difficult, but ideally with a closed, piecewise solution;

Level: The theorem is not very well known, and this is potentially a mathathon peroblem because of the difficulty of understanding and applying the teorem, in any case; and the fact that it is treorem, in any case; and the fact that it is