

Math 2001: WHW 1

The following assignment will be graded with an emphasis on clarity of exposition. You should write in complete sentences, be as precise as possible, and be mathematically correct (both in content and format). Be sure to include a title, a short introduction to the topic, and to define all the relevant mathematical terms. The assignment should be **typed**.

Write a complete guide to the game Poison (played with n tokens). You should include,

- (a) A description of the game.
- (b) A main result.
- (c) What is the optimal strategy and why?
- (d) Who wins (if both players know what they are doing)?
- (e) Precise arguments justifying all your assertions.

You will primarily be graded on how clearly and rigorously you express your ideas. Secondly, you will be graded on whether you actually have the correct answer.