Somewhat Random Numbers
Prepared by Mark on January 25, 2025

Problem 1:
Alice generates 100 random numbers uniformly from $[0, 1]$.
Bob generates 101 random numbers from $[0, 1]$, but deletes the lowest result.

Say we have both of the resulting arrays, but do not know who generated each one.
We would like to guess which of the two was generated by Bob.
What is the optimal strategy, and what is its probability of guessing correctly?