NIM

Rules: start with 21 pennies in the center. Each player must take 1-4 pennies each turn. The player to take the last penny loses. Play with these rules until you think you see a strategy to winning. If you need help ask one of the instructors for a hint.

1. What is your strategy for winning?
2. Does starting with 18 pennies in the middle change anything about your strategy?
3. Can 1 player win each time, if so what do they do and do they go first or second