**PROBLEM STATEMENT**

Automatone

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**THE PROBLEM:** To explore the idea of the automation of musical creativity.

**OBJECTIVES:** To develop a program that attempts to:

1. Mechanize the compositional process.
2. Provide an intuitive visual interface for the representation of music.
3. Provide a springboard for further musical development.
4. Simplify the compositional process for people who have little or no knowledge of the traditional music notation and theory.

**SCOPE:** The cost to develop the system will not exceed P 5,000.00

**PRELIMINARY IDEAS:** Algorithmic musical composition integrating concepts from music theory, genetic algorithms, and cellular automata theory.

**FEASIBILITY STUDY:** In order to produce a substantial amount of material within the allocated time, a simple working prototype featuring the core concepts behind the compositional activity will be completed. The improvement of the visual interface, the implementation of a system where more complex musical patterns can emerge, and the capability for receiving human input can be added later.