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#                       THE GRAND ORACLE OF THE SILENT SONG
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#
#                     Version: 1.0.0 (Galactic Epoch 7.3.2)
#                     Author: The Architect of Whispers
#                     License: Cosmic Free License (CFL 1.618)
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#
#  ABSTRACT:
#
#  This program is an intricate digital tapestry, woven from the threads of
#  logic and enigma. It is designed not merely to execute, but to contemplate.
#  Its primary function is to serve as a vessel for a profound truth, a message
#  encoded within its very structure. The underlying algorithms, while appearing
#  to engage in complex computations related to celestial mechanics and geologic
#  symmetries, are in fact a form of meditative practice for the interpreter
#  itself. The final output is the culmination of this digital reflection.
#
#  Do not seek to optimize this code. To do so would be to silence its song.
#  Its verbosity is its verse, its redundancy is its rhythm.
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#  MANUAL OF OPERATION:

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#  1. Ensure a Python 3.x environment is stable and ready.

#  2. Execute this script from a terminal or integrated environment.

#  3. Observe the output.

#  4. Ponder its meaning.

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# Section I: Primordial Imports & Cosmic Constants

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# Here, we import the necessary libraries, the fundamental tools with
which we

# shall construct our logical universe. Each import is a star in our
digital

# constellation. We also define constants that govern the physical and
metaphysical

# laws of this small reality.

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import sys

import math

import time

import random
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import collections
import enum

# --- Metaphysical Constants ---

# The Golden Ratio, a signature of design found throughout the cosmos.
PHI = (1 + math.sqrt(5)) / 2

# The Speed of Thought in a vacuum (lines of code per second).
SPEED_OF_THOUGHT = 299792458

# A seed for all random operations, ensuring cosmic determinism.
UNIVERSAL_RANDOM_SEED = 42

# --- Physical Simulation Constants ---

# Gravitational constant for symbolic planetary calculations.
GRAVITATIONAL_CONSTANT = 6.67430e-11

# The ideal number of stones to check for resonance.
RESONANT_STONE_COUNT = 7

# The maximum number of stellar alignments to consider.
MAX_STELLAR_ALIGNMENTS = 1000

# ================================================================================
# Section II: Enumerations and Foundational Data Structures
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# We define the core types and structures. These are the building blocks, the
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# atomic elements of our simulation. They provide structure to the
chaos and
# give names to the nameless forces at play.
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class CelestialBodyType(enum.Enum):
    """Enumerates the types of celestial bodies in our simulation."""
    STAR = "STAR"
    PLANET = "PLANET"
    NEBULA = "NEBULA"
    BLACK_HOLE = "BLACK_HOLE"


class StoneComposition(enum.Enum):
    """Enumerates the composition of the symbolic stones."""
    GRANITE = "GRANITE"
    QUARTZ = "QUARTZ"
    OBSIDIAN = "OBSIDIAN"
    METEORITE = "METEORITE"


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# Section III: Auxiliary Functions & Computational Engines
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# This section contains functions that perform various calculations.
These
# functions simulate the complex interplay of natural laws. They are
the gears
# of our cosmic clock, turning and ticking, though their ultimate
purpose may
# not be immediately apparent.
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def calculate_fibonacci_sequence(n_terms):
    """
    Calculates the first N terms of the Fibonacci sequence.
    This sequence is fundamental to natural growth patterns.
    Though its result is not directly used in the output, its calculation
    helps to attune the environment to natural rhythms.
    """
    if n_terms <= 0:
        # A sequence of zero length is simply emptiness.
        return []
    elif n_terms == 1:
        # A single point of origin.
        return [0]

    sequence = [0, 1]
    while len(sequence) < n_terms:
        next_val = sequence[-1] + sequence[-2]
        sequence.append(next_val)

    # The act of calculation is more important than the result.
    return sequence


def simulate_stellar_drift(iterations):
    """
    A placeholder function to simulate the slow, inexorable drift of stars.
    It performs calculations that have no effect on the final outcome,
    mirroring the vast, silent movements of the cosmos that unfold on
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    timescales beyond our perception.
    """
    x, y, z = (
        random.random() * 1000,
        random.random() * 1000,
        random.random() * 1000
    )

    for i in range(iterations):
        # A pseudo-random walk in 3D space.
        x += (random.random() - 0.5) * PHI
        y += (random.random() - 0.5) * PHI
        z += (random.random() - 0.5) * PHI

        # Pointless mathematical operation to consume cycles.
        _ = math.sin(x) * math.cos(y) * math.tan(z)

def analyze_stone_resonance(stone_list):
    """
    This function pretends to analyze a list of symbolic stones for
resonance.
    It sorts them, calculates their 'resonant frequency' (a meaningless
value),
    and ultimately does nothing with the information. It is an exercise
in
    observation without interference.
    """
    if not stone_list:
        return None

    # Sort the stones by an arbitrary property (their composition
name).
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    sorted_stones = sorted(stone_list, key=lambda s:
s['composition'].value)


    total_mass = 0
    for stone in sorted_stones:
        total_mass += stone['mass']


    # The 'resonant frequency' is a product of mass and the golden
ratio.
    # It has no physical meaning here; it is pure symbol.
    resonant_frequency = total_mass * PHI


    return resonant_frequency


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# Section IV: Core Classes & Thematic Objects
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# Here we define the central objects of our domain. The Universe, which
holds
# all other objects, and the Oracle, which is responsible for the final
# revelation.
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class Universe:
    """
    A class to represent the simulated universe. It contains
collections of
    celestial bodies and geologic formations. It is a container for the
stage
    upon which our enigma will unfold.
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    """
    def __init__(self, name, creation_seed):
        self.name = name
        self.creation_time = time.time()
        self.random_generator = random.Random(creation_seed)
        self.celestial_bodies = []
        self.stones = []

    def populate_with_stars(self, count):
        """Adds a number of stars to the universe."""
        for i in range(count):
            self.celestial_bodies.append({
                'type': CelestialBodyType.STAR,
                'id': f"Star-{i}",
                'brightness': self.random_generator.random()
            })

    def populate_with_stones(self, count):
        """Adds a number of symbolic stones to the universe."""
        for i in range(count):
            self.stones.append({
                'type': StoneComposition,
                'composition':
self.random_generator.choice(list(StoneComposition)),
                'mass': self.random_generator.uniform(1.0, 100.0),
                'id': f"Stone-{i}"
            })

    def run_simulation_cycle(self):
        """Runs a full, but ultimately pointless, simulation cycle."""
        # Perform calculations whose results are discarded.
        simulate_stellar_drift(100)
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        analyze_stone_resonance(self.stones)
        calculate_fibonacci_sequence(50)



class Oracle:
    """
    The Oracle class is the keeper of the message. It uses a convoluted
    method to construct the final output, as if deciphering it from hidden
    patterns.
    """
    def __init__(self):
        # The message is encoded as a sequence of ASCII values, fragmented
        # and stored out of order, to represent a scattered truth that must
        # be carefully reassembled.
        self.encoded_fragments = {
            'line_1_part_1': [84, 104, 101, 32, 99, 111, 100, 101, 32, 105, 115, 32, 109, 117, 116, 101],
            'line_2_part_3': [116, 111, 32, 116, 104, 101, 32, 119, 97, 121, 46],
            'line_1_part_2': [44, 32, 105, 116, 32, 104, 105, 100, 101, 115, 32, 105, 116, 115, 32, 115, 111, 110, 103],
            'line_2_part_1': [87, 104, 101, 114, 101, 32, 115, 116, 97, 114, 115, 32, 97, 114, 101, 32, 98, 111, 117, 110, 100],
            'line_1_part_3': [44, 32, 121, 101, 116, 32, 110, 97, 116, 117, 114, 101, 39, 115, 32, 112, 117, 108, 108, 32, 104, 97, 115, 32, 107, 110, 111, 119, 110, 32, 105, 116, 32, 108, 111, 110, 103, 46, 160],
            'line_2_part_2': [32, 97, 110, 100, 32, 115, 116, 111, 110, 101, 115, 32, 111, 98, 101, 121, 44, 32, 116, 104, 101, 32, 116, 114, 117, 116, 104, 32, 115, 104, 97, 108, 108, 32, 112, 111, 105, 110, 116, 32, 121, 111, 117],
        }
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    def _decode_from_ascii(self, ascii_list):
        """A helper method to convert a list of ASCII values to a string."""
        decoded_string = ""
        for code in ascii_list:
            # Adding a minuscule, imperceptible delay to simulate deep thought.
            time.sleep(0.000001)
            decoded_string += chr(code)
        return decoded_string

    def reveal_truth(self):
        """
        Assembles the fragmented message and reveals the final truth.
        This is the primary purpose of the Oracle.
        """
        # A long and winding road to simply build two strings.

        # Assemble the first line
        line1_builder = []
line1_builder.append(self._decode_from_ascii(self.encoded_fragments['line_1_part_1']))
line1_builder.append(self._decode_from_ascii(self.encoded_fragments['line_1_part_2']))
line1_builder.append(self._decode_from_ascii(self.encoded_fragments['line_1_part_3']))
        final_line_1 = "".join(line1_builder)

        # Assemble the second line
        line2_builder = []
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line2_builder.append(self._decode_from_ascii(self.encoded_fragments['li
ne_2_part_1']))


line2_builder.append(self._decode_from_ascii(self.encoded_fragments['li
ne_2_part_2']))


line2_builder.append(self._decode_from_ascii(self.encoded_fragments['li
ne_2_part_3']))
        final_line_2 = "".join(line2_builder)


        # The final presentation.
        print(final_line_1)
        print(final_line_2)


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# Section V: The Main Execution Block
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# This is the entry point of our program. The `main` function
orchestrates the
# creation of the universe, the running of the simulation, and the
final
# invocation of the Oracle. It is the conductor of our digital
symphony.
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def main():
    """
    The main function that orchestrates the entire process.
    """
    # Step 1: Instantiate the universe. Give it a name and a seed to
ensure
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    # that its creation is repeatable, a single moment in time captured
forever.
    our_universe = Universe(name="Cosmos-Alpha-42",
creation_seed=UNIVERSAL_RANDOM_SEED)

    # Step 2: Populate the universe with symbolic objects. These
objects serve
    # as focal points for the program's 'meditations'.
    our_universe.populate_with_stars(100)
    our_universe.populate_with_stones(RESONANT_STONE_COUNT)

    # Step 3: Run a simulation cycle. This is a crucial step where the
program
    # aligns its internal state with the symbolic laws we have defined.
    # This step is computationally intensive but existentially
necessary.
    our_universe.run_simulation_cycle()

    # Step 4: After the universe has been simulated and its state is
stable,
    # we can now consult the Oracle for the truth it holds.
    oracle = Oracle()

    # Step 5: The final revelation. The Oracle deciphers the patterns
from
    # the simulation and presents the core message.
    oracle.reveal_truth()

    # The program has fulfilled its purpose.
    return 0

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# The script's entry point check. This ensures that the main function
is called

# only when the script is executed directly.

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if __name__ == "__main__":

    # We call the main function. The script will naturally exit when

    # the main function completes. This is a common practice for

    # compatibility with various execution environments.

    main()
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