# **Proof of Infinite Primes in Shakespeare Style**

### **Background**

The following prompt tests an LLM's capabilities to write a proof that there are infinitely many primes in the style of a Shakespeare play.

#### **Prompt**

Write a proof of the fact that there are infinitely many primes; do it in the style of a Shakespeare play through a dialogue between two parties arguing over the proof.

#### Code / API

GPT-4 (OpenAI) Mixtral MoE 8x7B Instruct (Fireworks)

## Reference

• <u>Sparks of Artificial General Intelligence: Early experiments with GPT-4</u> (13 April 2023)

Last updated on September 19, 2024

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