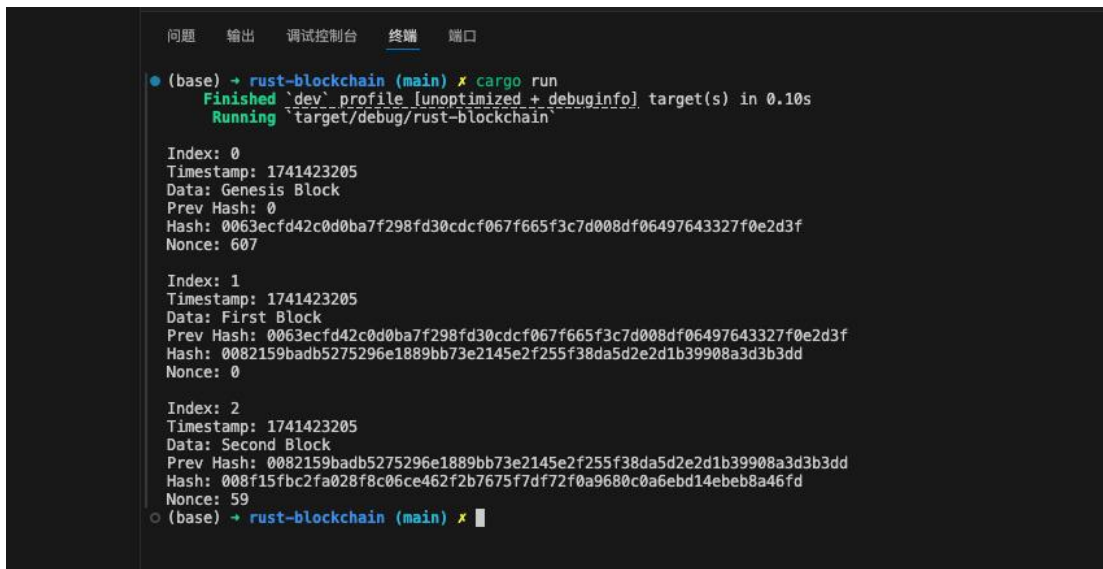


# 项目说明

## 一. 运行指南

1. 安装 Rust 环境
2. 添加依赖: sha2 = "0.10.8", chrono = "0.4.40", serde = { version = "1.0.218", features = ["derive"]} }
3. 编译运行: cargo run

## 二. 预期输出



```
● (base) → rust-blockchain (main) x cargo run
Finished `dev` profile [unoptimized + debuginfo] target(s) in 0.10s
Running `target/debug/rust-blockchain`

Index: 0
Timestamp: 1741423205
Data: Genesis Block
Prev Hash: 0
Hash: 0063ecfd42c0d0ba7f298fd30cdf067f665f3c7d008df06497643327f0e2d3f
Nonce: 607

Index: 1
Timestamp: 1741423205
Data: First Block
Prev Hash: 0063ecfd42c0d0ba7f298fd30cdf067f665f3c7d008df06497643327f0e2d3f
Hash: 0082159badb5275296e1889bb73e2145e2f255f38da5d2e2d1b39908a3d3b3dd
Nonce: 0

Index: 2
Timestamp: 1741423205
Data: Second Block
Prev Hash: 0082159badb5275296e1889bb73e2145e2f255f38da5d2e2d1b39908a3d3b3dd
Hash: 008f15fbc2fa028f8c06ce462f2b7675f7df72f0a9680c0a6ebd14ebeb8a46fd
Nonce: 59
○ (base) → rust-blockchain (main) x
```

## 三. 后续优化

1. 添加 P2P 网络通信
2. 实现交易系统
3. 增加 Merkle 树结构
4. 完善共识算法