

## Homework 4

### 1. Try out the Solidity Template or the Foundry Template

#### 1. Start a new project using the Solidity Template

- <https://hardhat.org/hardhat-runner/docs/getting-started#overview>
- <https://book.getfoundry.sh/getting-started/first-steps>

#### 2. Make a fork of mainnet from the command line (you may need to setup an Infura or Alchemy account)

- <https://hardhat.org/hardhat-network/docs/guides/forking-other-networks>
- <https://book.getfoundry.sh/forging/fork-testing>

### 2. Query the mainnet using the command line to retrieve a property such as latest block number.

In Foundry:

```
$ cast block latest
```

In Hardhat ethers

```
require("@nomiclabs/hardhat-ethers");  
  
const latestBlock = await ethers.provider.getBlock("latest")
```

### 3. Is this valid solidity?

Yes it is.

[https://twitter.com/jtriley\\_eth/status/1623490750490230785](https://twitter.com/jtriley_eth/status/1623490750490230785)