

csch-solutions-part-1

JohnnyTime's Cairo Smart Contract Hacking Course Part 1 Exercises Repository WITH Solutions.

Prerequisites

- Install [Scarb 2.8.1](#)
 - Install [asdf](#)
 - Add scarb plugin - `asdf plugin add scarb`
 - Install scarb 2.8.1 - `asdf install scarb 2.8.1`
 - Set as a global var version - `asdf global scarb 2.8.1`
- Install [Starknet-Foundry 0.24.0](#)
 - Run - `curl -L https://raw.githubusercontent.com/foundry-rs/starknet-foundry/master/scripts/install.sh | sh`
 - Install version `0.26.0` | `snfoundryup -v 0.29.0`
- Install [Universal Sierra Compiler](#)
 - Run - `curl -L https://raw.githubusercontent.com/software-mansion/universal-sierra-compiler/master/scripts/install.sh | sh`
 - Version: 2.2.0

Getting started

- To run all tests, use the command `snforge test`.
- To run a specific test file, use the command `snforge test test_name_num`.

Repository structure

- All the exercises are located in `src/exercises/`
 - The exercises are divided into 2 categories which exist in 2 separate folders: `cairo_crash_course` and `cairo_hacking`
 - Each exercise chapter is represented by a folder, such as `src/exercises/cairo_hacking/first_cairo_contract`.
 - Within each chapter folder, there are subfolders for individual exercises, labeled with the exercise number, e.g.:
`src/exercises/cairo_hacking/first_cairo_contract/first_cairo_contract_1`
- Every exercise includes a Cairo module file (e.g.: `src/exercises/cairo_hacking/first_cairo_contract/first_cairo_contract1.cairo`), which imports the test file and all associated code.
- Initially, the test file is commented out. When you begin working on the exercise, remember to **uncomment the code in the `.cairo` files in the exercise folder!** Test files are named in the format `test_name_num.cairo`.

How to run exercise and complete the exercise

1. Uncomment all the code in the `.cairo` files in the exercise folder.

2. Complete all the TODOs in both the code and the test file.
3. To confirm whether your exercise is completed, run `snforge test exercise`.
 - For instance: `snforge test first_cairo_contract_1`.
 - It is also possible to run the test just with the name of the folder, for instance: `snforge test first_cairo_contract_1`.
4. If the test passes, then you have completed the exercise.

Troubleshooting

Error E0277

Error: error[E0277]: the trait bound `[CodeMapping]: std::default::Default` is not satisfied

Solution: Update rust by running the command `rustup update`.