

Cairo Crash Course

Ownership - Exercise 4

In this exercise we are going to use Arrays with spans.

Reminder: A span is a snapshot of an array that allows us to iterate over its elements.

Contract Implementation

In the `ownership_exercise_4.cairo` file, complete the function `multiply_elements(my_array: @Array<u32>) -> u32`:

1. The function creates a span of `my_array` parameter.
2. Then it multiplies all its elements (using the span) returning the result.

Tests

In the `test_ownership_4.cairo` file inside the `test_multiplication()`:

- Create an array `numbers: Array<u32>` with `[1,2,3,4,5,6,7,8,9]` as elements.
- Create a snapshot of `numbers` in the variable `my_snapshot`.
- Append the number 10 to the original `numbers` array.
- Invoke the `multiply_elements` function passing `my_snapshot` as parameter.
- Assert the final result - make sure the returned number is correct.

Useful links

[Arrays](#)

[Ownership](#)

[References and Snapshots](#)