Cairo Crash Course

Advanced data types - Exercise 3

Contract Implementation

Complete the skeleton of the function calculate_multiples in advanced_types_exercise_3.cairo with the following:

- 1. The function calculate_multiples that takes two parameters:
 - o base: A u256 that represents the base number.
 - o count: A u256 that represents the number of multiples to generate.
- 2. Initialize an empty array to store the multiples.
- 3. Use a loop to calculate the first count multiples of base and append each multiple to the array.
- 4. Return the array

Writing Tests

- 1. In the test file test_advanced_types_3.cairo, invoke your function calculate_multiples with different values for base and count based on the written TODOs.
- 2. implement the necessary assertions to check that each index value in the array corresponds to the correct multiple of base. If your assertions are correctly implemented, all tests should pass 🞉 🤤

Example

If base is 3 and count is 5, the array should contain: [3, 6, 9, 12, 15]

Useful links

Cairo Book: Arrays