Homework 2

Coding Challenge Solution

Reverse an Array Answer

Using `reverse()` Method

```rust
fn main() {

    let mut array = [1, 2, 3, 4,];

        array.reverse(); // using the
`reverse()` method

    println!("{:?}", array);


}
```

This is a very easy way to reverse an array in Rust, using the `reverse()` method. It's good to know, but if you want to get more practice with Rust's syntax and use a `for` loop, you could try something like this:

Using a `for` Loop

```rust
fn main() {

```

```rust
    let mut array = [1, 2, 3, 4,];

        let len = array.len(); // get the
    array length

        // Loop from 0 to half the length
    of the array
        for i in 0..len / 2 {
                let opp = len -i -1; //
    Calculate the opposite index
                array.swap(i, opp); //
    Swap elements at index i and the opposite
    index
        }

    println!("{:?}", array);

}
```

This version of the program reverses the elements of an array in place by using a `for` loop. It first determines the length of the array. Then, it iterates over the first half of the array, swapping each element with its corresponding element from the end. Finally, it prints the reversed array.

You can play with this code here on [Rust Playground](#)