Coding challenge

1. Complete this redacted Rust code extract:

fn main() {

let mut data:[i32;5] = [10, 20, 30, 40, 50];

unsafe {

let value = &mut data[0] as \*mut i32;

\*value.offset(1) = -99;

}

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

}



STDOUT

[10, -99, 30, 40, 50]

Your goal is to modify the 2nd array value to -99 using an indirect assignment, i.e. *not* *using* the original “data” binding.

1. Complete this second redacted Rust code extract to achieve the desired change in the character array through raw pointer manipulation:



fn main() {

let mut data:[char;4] = ['b','r','i','g'];

unsafe {

let value = &mut data[0] as \*mut char;

\*value.offset(2) = 'a';

}

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

}

['b', 'r', 'a', 'g']

STDOUT

**Don’t just alter the original array on line 2(!)**

**Hint**: think mutability, references, and dereferences – some of which are considered unsafe, of course…