Coding challenge

A short PoC of Rust code is needed which can perform the following tasks:

1. Store the following string (“GL13QN”) in the four correctly-named member fields of a UK Postcode:

|  |  |  |  |
| --- | --- | --- | --- |
| **area** | **district** | **sector** | **unit** |
| **GL** | **1** | **3** | **QN** |

1. Box an instance of this data on the heap dynamically at run-time.
2. Print the entire instance of the structure.
3. Print the individual fields.
4. Modify the “district” field value from “2” to “1”.
5. Reprint the entire instance of the structure to confirm the member field’s data has been modified successfully.

**Note. Think about required attributes and mutability.**

**Extension Tasks (time permitting)**

* Modify your code so that a simple linked-list of Postcodes can be created dynamically on the heap, populated by sample data.
* Iterate over this linked-list from head-to-tail to print each postcode stored.