**Coding challenge**

A Rust program is needed to simulate the filtering of a list of IPv4 addresses which have been logged as suspicious.

**Design notes**

* Each IPv4 address is stored as text
* The list of suspicious IPv4 addresses should be flexible in length and may be stored as literals.
* There will be duplicates in this list
* Process the list and remove all duplicates
* Print the “deduped” list once processed

**Extension tasks**

* Modify the code so that a count is kept of the occurrences of each unique IPv4 originally logged.
* Print the list of “deduped” suspicious IPv4’s in occurrence order, i.e. most seen to least seen (in the original list)
* Read the suspicious IPv4’s into memory from a text file (- you will need to research this process) rather than being stored as literals.