Write a program to parse configuration files made up of white space separated words and sections delimited by curly braces. Here is an example of the configuration file:

runtime {

key1 value1

key2 value2

flag1

system1 {

prop1 value1

prop2 value2

ports 1234 5678 9102

subsystem1 {

prop3 value1 value2 value3

flag2

}

}

more stuff here

}

* Save the parsed configuration in a data structure that allows querying for sections, subsections, key value pairs, and flags.
* Consider how to handle malformed configuration files.
* Write code to test your program, in the form of unit tests appropriate for the programming language of your choice.
* The code should compile and run, as well all the test cases should pass.
* Include in your solution all the instructions necessary to run the program, including how to set up the runtime environment with dependencies and requirements.
* Choose any one of the following programming languages: C, C++, Java, Python, JavaScript or Go.
* Let us know if you have any questions.