

Task 1

In the table below are listed the scenario and the output result that the program can deliver.

Scenario	Result
The request ARP is not broadcasted, hence Eth heading has destination different than ff:ff:ff:ff:ff:ff	error
In the request packet the target mac address is different form (00:00:00:00:00:00)	error
In the response packet the mac address in the payload in not configured	error
One MAC address has multiple IP	permitted
One IP address is associated with multiple MAC address	error
Under the RFC826, the opcode is not 1 or 2	error
In the ETH header the source MAC is different to the payload's sender MAC	error
One machine requests multiple times the same question, or replay to a request multiple time (host deviations) *	error/ notice

**From the program heading is it possible to set the sensibility of the anti-flood system, by default is configured to allow max two identical packet. To change it, you have to modify the "SPAM_CRITIC_RIPETITION_VALUE".*

The program loads the config file information in the database, at the end the update database is saved on the config file.