Readme:

router.tar.gz - source code of the program.
asg2_no_nat.log - log file of run_mininet.sh by linux command script, nat option is off
asg2_nat.log – log file of run_mininet.sh by linux command script, nat option is on

-I INTEGER -- ICMP query timeout interval in seconds (default to 60)

Each ICMP is processed, the corresponding entry's time stamp in NAT table will get update.
The thread periodically check the ICMP entry in NAT table times tamp, if it time out, then delete this entry.

-E INTEGER -- TCP Established Idle Timeout in seconds (default to 7440)
-R INTEGER -- TCP Transitory Idle Timeout in seconds (default to 300)

Each SYN or FIN, corresponding entry's connection's time stamp will be update to current time + TCP Established Idle Timeout,
Each other corresponding entry's connection's time stamp will be update to current time +   TCP Transitory Idle Timeout.
Each FIN ACK, corresponding entry's connection will be deleted.
The thread periodically check the time stamp of each TCP entry in the NAT table, if time out, delete the corresponding connection, if the TCP mapping entry doesn't have any connection, delete the mapping entry.