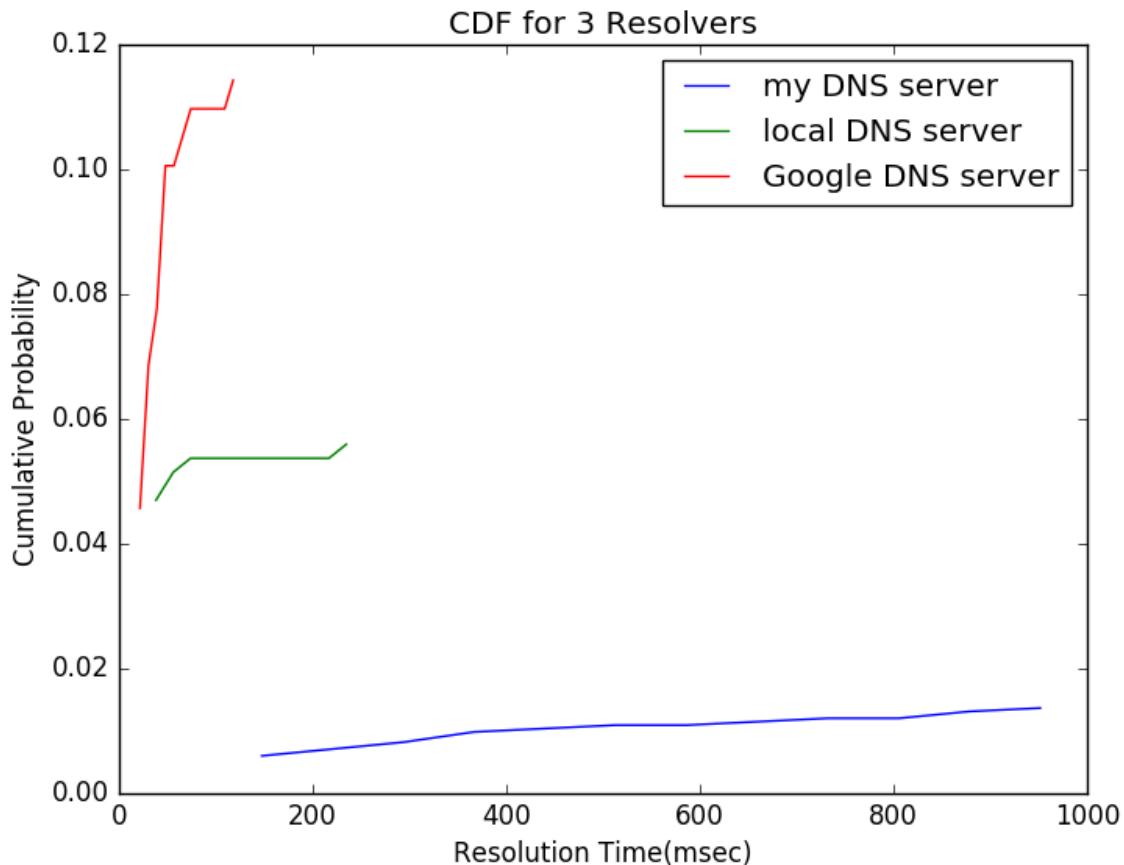


Part C:



From the graph we can see that Google DNS server is a little quicker than local DNS server, and both much quicker than my DNS server.

Most of my trials, however, showed that local DNS server is obviously quicker than the Google DNS server, because local DNS is much closer to my host than Google DNS server. This time the Google DNS server is a little quicker probably because of the slow network at present (Roommates are using).

The reason for the much slower “my DNS server” is that, on one hand, my algorithm is not efficient enough (the algorithms I used is just rough and not carefully weighted); on the other hand, I didn’t use cache, which doesn’t save time when querying same request.

Part D:

DNS Package for “www.cs.stonybrook.edu” “A”

33239	QR RD RA
1	1
0	0
www.cs.stonybrook.edu. IN A	
www.cs.stonybrook.edu. 28800 IN A 130.245.27.2	