## Cindy Tai 31462986 Section 002

## Case 1: Name Found

## Case 2: Name Not Found

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dnsclient.py × dnsserver.py
                 print("Question Length: " + str[len(question.encode())) + " bytes")
print("Answer Length: 0 bytes")
print("Question: " + question + "\n")
                  # Send DNS request to serve
                  clientSocket.settimeout(1)
                  numTries += 1
                   # Attempt to receive DNS response
                         unesponse, ununers = Clientsocket.recvfrom(1024)
response = struct.unpack('>hhihh%ds%ds' % (len(question.encode()), (len(dResponse) - len(question.encode()) - 12)), dResponse)
rCode = int(response[1])
msgID = int(response[2])
qLen = int(response[3])
aLen = int(response[4])
question2 = response[5].decode()
answer = response[5].decode()
answer = response[6].decode()
                                                                                                                                                                                                                                                                             PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                                                                                                                                        1: py, bash
ct890@LAPTOP-41P1T1GR MINGW64 /d/Users/ct890/documents/NJIT/2Spring2020/CS356/DNS
Program
                                                                                                                                                               ct890@LAPTOP-41P1T1GR MINGW64 /d/Users/ct890/documents/NJIT/2Spring2020/CS356/DNS
                                                                                                                                                              CRB96LAPTOR-41P1TGK MINAWA /d/Users/cta90/documents/HJIT/2spring
Program
$ py dnsclient.py 127.0.0.1 12000 host-not-exist.student.test A IN
sending Request to 127.0.0.1, 12000:
Message ID: 1
Question Length: 2b bytes
Answer Length: 0 bytes
Question: host-not-exist.student.test A IN
Program
$ py dnsserver.py 127.0.0.1 12000
The server is ready to receive on port: 12000
                                                                                                                                                              Received Response from 127.0.0.1, 12000:
Return Code: 1 (Name does not exist)
Message ID: 1
Question Length: 32 bytes
Answer Length: 0 bytes
Question: host-not-exist.student.test A IN
                                                                                                                                                              ct890@LAPTOP-41P1T1GR MINGW64 /d/Users/ct890/documents/NJIT/2Spring2020/CS356/DNS
```

## Case 3: No Server Response

