

## README: Problem Sheet #1

### Problem 1.1: mdns viewer

**build:** gcc viewer.c -Wall -o viewer

**run:** ./viewer

**sample output:**

```
-----
HEADER SECTION
-----
ID: 0, QR: 0, OPCODE: 0, AA: 0, TC: 0, RD: 0, RA: 0, Z: 2, RCODE: 8
QUERY: 0, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

-----
QUESTION SECTION
-----

-----
ANSWER SECTION
-----
saurav-ipod.local.      0      UNKNOWN      AAAA      16      80fe:0:0:0:b05a:ff35:50fe:bfe9
saurav-ipod.local.      0      UNKNOWN      AAAA      16      120:3806:907:4300:b05a:ff35:50fe:bfe9

-----
AUTHORITY SECTION
-----

-----
ADDITIONAL SECTION
-----
saurav-ipod.local.      0      UNKNOWN      NSEC      8      UNKNOWN
```

### Problem 1.2: mdns querier

**build:** gcc querier.c -Wall -o querier

**run:** ./querier.c <ipv4 IP> <port> <name> <type>

**sample output:**

```
Vaibhav:mdNS Vaibhav$ ./querier 224.0.0.251 5353 Keivan-Mallahi-Karais-iPhone.local. ANY

QUESTION SECTION:
Keivan-Mallahi-Karais-iPhone.local.      IN      A

AUTHORITY SECTION:
Keivan-Mallahi-Karais-iPhone.local.      0      IN      A      4      10.71.163.136
Keivan-Mallahi-Karais-iPhone.local.      0      IN      AAAA     16      120:3806:907:4300:1e06:ff64:82fe:eb20
Keivan-Mallahi-Karais-iPhone.local.      0      IN      AAAA     16      80fe:0:0:0:1e06:ff64:82fe:eb20
```