```
No.      Time              Source                Destination            Protocol Length Info
      3 0.000075005     127.0.0.1             127.0.0.1              DNS      94     Standard query 0xac49 A
candace.com OPT
Frame 3: 94 bytes on wire (752 bits), 94 bytes captured (752 bits) on interface lo, id 0
    Interface id: 0 (lo)
        Interface name: lo
    Encapsulation type: Ethernet (1)
    Arrival Time: Mar 17, 2022 23:56:46.805686769 HST
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1647597406.805686769 seconds
    [Time delta from previous captured frame: 0.000046674 seconds]
    [Time delta from previous displayed frame: 0.000046674 seconds]
    [Time since reference or first frame: 0.000075005 seconds]
    Frame Number: 3
    Frame Length: 94 bytes (752 bits)
    Capture Length: 94 bytes (752 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:dns]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)
    Destination: 00:00:00_00:00:00 (00:00:00:00:00:00)
        Address: 00:00:00_00:00:00 (00:00:00:00:00:00)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: 00:00:00_00:00:00 (00:00:00:00:00:00)
        Address: 00:00:00_00:00:00 (00:00:00:00:00:00)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 80
    Identification: 0x7acc (31436)
    Flags: 0x00
        0... .... = Reserved bit: Not set
        .0.. .... = Don't fragment: Not set
        ..0. .... = More fragments: Not set
    Fragment Offset: 0
    Time to Live: 64
    Protocol: UDP (17)
    Header Checksum: 0x01cf [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 127.0.0.1
    Destination Address: 127.0.0.1
User Datagram Protocol, Src Port: 52842, Dst Port: 12345
    Source Port: 52842
    Destination Port: 12345
    Length: 60
    Checksum: 0xfe4f [unverified]
    [Checksum Status: Unverified]
    [Stream index: 2]
    [Timestamps]
        [Time since first frame: 0.000000000 seconds]
        [Time since previous frame: 0.000000000 seconds]
    UDP payload (52 bytes)
Domain Name System (query)
    Transaction ID: 0xac49
    Flags: 0x0120 Standard query
        0... .... .... .... = Response: Message is a query
        .000 0... .... .... = Opcode: Standard query (0)
        .... ..0. .... .... = Truncated: Message is not truncated
        .... ...1 .... .... = Recursion desired: Do query recursively
        .... .... .0.. .... = Z: reserved (0)
        .... .... ..1. .... = AD bit: Set
        .... .... ...0 .... = Non-authenticated data: Unacceptable
    Questions: 1
    Answer RRs: 0
    Authority RRs: 0
    Additional RRs: 1
    Queries
```

```
        candace.com: type A, class IN
            Name: candace.com
            [Name Length: 11]
            [Label Count: 2]
            Type: A (Host Address) (1)
            Class: IN (0x0001)
    Additional records
        <Root>: type OPT
            Name: <Root>
            Type: OPT (41)
            UDP payload size: 4096
            Higher bits in extended RCODE: 0x00
            EDNS0 version: 0
            Z: 0x0000
                0... .... .... .... = DO bit: Cannot handle DNSSEC security RRs
                .000 0000 0000 0000 = Reserved: 0x0000
            Data length: 12
            Option: COOKIE
                Option Code: COOKIE (10)
                Option Length: 8
                Option Data: cf11896756d582fb
                Client Cookie: cf11896756d582fb
                Server Cookie: <MISSING>
No.     Time            Source                Destination           Protocol Length Info
      4 0.000193577     127.0.0.1             127.0.0.1             DNS      59     Unknown operation (13)
0x4865[Malformed Packet]
Frame 4: 59 bytes on wire (472 bits), 59 bytes captured (472 bits) on interface lo, id 0
    Interface id: 0 (lo)
        Interface name: lo
    Encapsulation type: Ethernet (1)
    Arrival Time: Mar 17, 2022 23:56:46.805805341 HST
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1647597406.805805341 seconds
    [Time delta from previous captured frame: 0.000118572 seconds]
    [Time delta from previous displayed frame: 0.000118572 seconds]
    [Time since reference or first frame: 0.000193577 seconds]
    Frame Number: 4
    Frame Length: 59 bytes (472 bits)
    Capture Length: 59 bytes (472 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:dns]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
 Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)
    Destination: 00:00:00_00:00:00 (00:00:00:00:00:00)
        Address: 00:00:00_00:00:00 (00:00:00:00:00:00)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: 00:00:00_00:00:00 (00:00:00:00:00:00)
        Address: 00:00:00_00:00:00 (00:00:00:00:00:00)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
 Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 45
    Identification: 0x7acd (31437)
    Flags: 0x40, Don't fragment
        0... .... = Reserved bit: Not set
        .1.. .... = Don't fragment: Set
        ..0. .... = More fragments: Not set
    Fragment Offset: 0
    Time to Live: 64
    Protocol: UDP (17)
    Header Checksum: 0xc1f0 [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 127.0.0.1
    Destination Address: 127.0.0.1
 User Datagram Protocol, Src Port: 12345, Dst Port: 52842
    Source Port: 12345
    Destination Port: 52842
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        Length: 25
        Checksum: 0xfe2c [unverified]
        [Checksum Status: Unverified]
        [Stream index: 2]
        [Timestamps]
            [Time since first frame: 0.000118572 seconds]
            [Time since previous frame: 0.000118572 seconds]
        UDP payload (17 bytes)
   Domain Name System (query)
        Transaction ID: 0x4865
        Flags: 0x6c6c Unknown operation
            0... .... .... .... = Response: Message is a query
            .110 1... .... .... = Opcode: Unknown (13)
            .... ..0. .... .... = Truncated: Message is not truncated
            .... ...0 .... .... = Recursion desired: Don't do query recursively
            .... .... .1.. .... = Z: reserved - incorrect!
            .... .... ..1. .... = AD bit: Set
            .... .... ...0 .... = Non-authenticated data: Unacceptable
        Questions: 28448
        Answer RRs: 26226
        Authority RRs: 28525
        Additional RRs: 8307
        Queries
   [Malformed Packet: DNS]
        [Expert Info (Error/Malformed): Malformed Packet (Exception occurred)]
            [Malformed Packet (Exception occurred)]
            [Severity level: Error]
            [Group: Malformed]
```