1.

```
Name:    gazeta.ru
Addresses:  81.19.72.5
            81.19.72.3
            81.19.72.1
            81.19.72.0
            81.19.72.4
            81.19.72.2
```

2.

```
unibuc.ro
        primary name server = ns.unibuc.ro
        responsible mail addr = root.ns.unibuc.ro
        serial  = 2019020205
        refresh = 1800 (30 mins)
        retry   = 900 (15 mins)
        expire  = 1209600 (14 days)
        default TTL = 5400 (1 hour 30 mins)
```

3.

```
Server:  ns.unibuc.ro
Address:  80.96.21.3

*** ns.unibuc.ro can't find yahoo.com: Query refused
```

4. UDP

```
No.    Time          Source              Destination          Protocol Length Info
    82 4.956980      153.90.88.165       153.90.2.15          DNS      72     Standard query 0x0c54 A www.ietf.org
Frame 82: 72 bytes on wire (576 bits), 72 bytes captured (576 bits) on interface 0
Ethernet II, Src: Dell_ca:8f:c8 (18:03:73:ca:8f:c8), Dst: Cisco_9f:f0:58 (00:00:0c:9f:f0:58)
Internet Protocol Version 4, Src: 153.90.88.165, Dst: 153.90.2.15
User Datagram Protocol, Src Port: 62512, Dst Port: 53
Domain Name System (query)
```

5. Dest: 53   Src: 62512
6. 152.90.2.15   Matches ipconfig.
7. Standard Query. No answers.
8. 3 answers. Each contains an address.

```
v Domain Name System (response)
     Transaction ID: 0x0c54
   > Flags: 0x8180 Standard query response, No error
     Questions: 1
     Answer RRs: 3
     Authority RRs: 0
     Additional RRs: 0
   > Queries
   v Answers
     > www.ietf.org: type CNAME, class IN, cname www.ietf.org.cdn.cloudflare.net
     > www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.20.0.85
     > www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.20.1.85
     [Request In: 82]
     [Time: 0.034449000 seconds]
```

9. Yes, 104.20.0.85
10. No, it doesn't.
11. Dest of query: 53   Src of response: 53
12. 153.90.2.15   Yes this is address of default DNS
13. Standard Query. 0 answers.
14. 4 answers. They all contain an address.
16. 153.90.2.15   Yes this is address of default DNS

17. Standard Query. 0 answers.

18. Doesn't provide IP addresses of nameservers.

```
v Domain Name System (response)
    Transaction ID: 0x0004
  > Flags: 0x8180 Standard query response, No error
    Questions: 1
    Answer RRs: 8
    Authority RRs: 0
    Additional RRs: 0
  > Queries
  v Answers
    > mit.edu: type NS, class IN, ns asia2.akam.net
    > mit.edu: type NS, class IN, ns usw2.akam.net
    > mit.edu: type NS, class IN, ns use2.akam.net
    > mit.edu: type NS, class IN, ns use5.akam.net
    > mit.edu: type NS, class IN, ns ns1-37.akam.net
    > mit.edu: type NS, class IN, ns asia1.akam.net
    > mit.edu: type NS, class IN, ns eur5.akam.net
    > mit.edu: type NS, class IN, ns ns1-173.akam.net
    [Request In: 52]
    [Time: 0.000786000 seconds]
```

20. Not default DNS address.   18.72.0.3

21. Standard Query. 0 answers.

22. Getting "DNS request timed out" error.

```
C:\Users\spide>nslookup www.aiit.or.kr bitsy.mit.edu
DNS request timed out.
    timeout was 2 seconds.
Server:  UnKnown
Address:  18.72.0.3

DNS request timed out.
    timeout was 2 seconds.
DNS request timed out.
    timeout was 2 seconds.
DNS request timed out.
    timeout was 2 seconds.
DNS request timed out.
    timeout was 2 seconds.
*** Request to UnKnown timed-out
```