

Задача 1

а) alexandrakuzmina@MacBook-Pro-Alexandra ~ % nslookup aabi.info
 Server: 10.1.0.1
 Address: 10.1.0.1#53
 Non-authoritative answer:
 Name: aabi.info
 Address: 101.231.81.172

сервер из Азии

б) alexandrakuzmina@MacBook-Pro-Alexandra ~ % nslookup -type=soa www.helsinki.fi
 Server: 10.1.0.1
 Address: 10.1.0.1#53
 Non-authoritative answer:
 www.helsinki.fi canonical name = adc-vip3.it.helsinki.fi.
 Authoritative answers can be found from:
 it.helsinki.fi
 origin = serifos.helsinki.fi
 mail addr = hostmaster.helsinki.fi
 serial = 2022031814
 refresh = 3600
 retry = 900
 expire = 3600000
 minimum = 900

к какому серверу

alexandrakuzmina@MacBook-Pro-Alexandra ~ % nslookup www.helsinki.fi serifos.helsinki.fi
 Server: serifos.helsinki.fi
 Address: 128.214.4.64#53
 www.helsinki.fi canonical name = adc-vip3.it.helsinki.fi.
 Name: adc-vip3.it.helsinki.fi
 Address: 128.214.189.90

в) alexandrakuzmina@MacBook-Pro-Alexandra ~ % nslookup yandex.com
 Server: 10.1.0.1
 Address: 10.1.0.1#53
 Non-authoritative answer:
 Name: yandex.com
 Address: 77.88.55.80
 Name: yandex.com
 Address: 5.255.255.80
 Name: yandex.com
 Address: 5.255.255.88
 Name: yandex.com
 Address: 77.88.55.77

несколько серверов

alexandrakuzmina@MacBook-Pro-Alexandra ~ % nslookup spbu.ru
 Server: 10.1.0.1
 Address: 10.1.0.1#53
 Non-authoritative answer:
 Name: spbu.ru
 Address: 82.202.190.112

Нам университет

Задача 2

а) Internet Protocol Version 4, Src: 192.168.0.1, Dst: 192.168.0.105
 0100 ... = Version: 4
 ... 0101 = Header Length: 20 bytes (5)
 > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
 Total Length: 80
 Identification: 0x0b2f (27455)
 > Flags: 0x00, Don't fragment
 ... 0 0000 0000 0000 = Fragment Offset: 0
 Time to Live: 62
 > Protocol: UDP (17)
 Header checksum: 0xafa3 [validation disabled]
 (Header checksum status: Unverified)
 Source Address: 192.168.0.1
 Destination Address: 192.168.0.105

б) User Datagram Protocol, Src Port: 53140
 Destination Port: 53
 Length: 38

в) alexandrakuzmina@MacBook-Pro-Alexandra ~ % cat /etc/resolv.conf
 # macOS Notice
 # This file is not consulted for DNS hostname resolution, address
 # resolution, or the DNS query routing mechanism used by most
 # processes on this system.
 # To view the DNS configuration used by this system, use:
 # scutil --dns
 # SEE ALSO
 # dns-sd(1), scutil(8)
 # This file is automatically generated.
 nameserver 192.168.0.1
 nameserver 8.8.8.8

880	192.168.0.1	192.168.0.105
449	192.168.0.105	192.168.0.1
137	192.168.0.1	192.168.0.105

соответствие

```
d) Additional RRs: 0
Queries
  www.ietf.org: type A, class IN
    Name: www.ietf.org
    [Name Length: 12]
    [Label Count: 3]
    Type: A (Host Address) (1)
    Class: IN (0x0001)
    [Retransmitted request. Original request in: 47]
    [Retransmission: True]
```

Омберто & мейн не в курсе.

```
e) Class: IN (0x0001)
Answers
  www.ietf.org: type CNAME, class IN, cname www.ietf.org.cdn.cloudflare.net
    Name: www.ietf.org
    Type: CNAME (Canonical NAME for an alias) (5)
    Class: IN (0x0001)
    Time to live: 1800 (30 minutes)
    Data length: 33
    CNAME: www.ietf.org.cdn.cloudflare.net
  www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.16.44.99
    Name: www.ietf.org.cdn.cloudflare.net
    Type: A (Host Address) (1)
    Class: IN (0x0001)
    Time to live: 300 (5 minutes)
    Data length: 4
    Address: 104.16.44.99
  www.ietf.org.cdn.cloudflare.net: type A, class IN, addr 104.16.45.99
    Name: www.ietf.org.cdn.cloudflare.net
    Type: A (Host Address) (1)
    Class: IN (0x0001)
    Time to live: 300 (5 minutes)
    Data length: 4
    Address: 104.16.45.99
    [Request In: 47]
    [Time: 5.458827000 seconds]
```

БОТ
ЕМО!

104.16.44.99
104.16.45.99
комбайн.

г) Нет, но есть сервисы для
analytics.ietf.org

Задача 3

```
a) User Datagram Protocol, Src Port: 55052
Destination Port: 53
Length: 33
```

```
Destination Address: 192.168.0.105
User Datagram Protocol, Src Port: 53, Dst Port: 55052
Source Port: 53
Destination Port: 55052
Length: 49
Checksum: 0xbe95 [unverified]
```

```
192.168.0.105
192.168.0.1
```

Сотрагем

2) Адрес отсканен &

```
b) Additional RRs: 0
Queries
  spbu.ru: type A, class IN
    Name: spbu.ru
    [Name Length: 7]
    [Label Count: 2]
    Type: A (Host Address) (1)
    Class: IN (0x0001)
    [Response In: 7]
```

Омберто & мейн

```
Domain Name System (response)
Transaction ID: 0x2f54
Flags: 0x0100 Standard query response, No error
Questions: 1
Answer RRs: 1
Authority RRs: 0
Additional RRs: 0
Queries
  spbu.ru: type A, class IN
    Name: spbu.ru
    [Name Length: 7]
    [Label Count: 2]
    Type: A (Host Address) (1)
    Class: IN (0x0001)
Answers
  spbu.ru: type A, class IN, addr 82.202.190.112
    Name: spbu.ru
    Type: A (Host Address) (1)
    Class: IN (0x0001)
    Time to live: 1163 (19 minutes, 23 seconds)
    Data length: 4
    Address: 82.202.190.112
    [Request In: 8]
    [Time: 0.003381000 seconds]
```

Задание 4

Я несколько раз переиспользовал портбук и продала
2 вчера продать жаркое, но каждый раз вела кивком.

```
alexandrakuzmina@MacBook-Pro-Alexandra ~ % nslookup -type=NS spbu.ru
;; connection timed out; no servers could be reached
```

Задание 5

а) 192.168.0.105

195.70.196.210

102.168.0.105

Принципиально ns2.ru.ru

б)

```
.....0 .... = Non-authenticated data
Questions: 1
Answer RRs: 0
Authority RRs: 0
Additional RRs: 0
Queries
  www.spbu.ru: type A, class IN
    Name: www.spbu.ru
    [Name Length: 11]
    [Label Count: 3]
    Type: A (Host Address) (1)
    Class: IN (0x0001)
    [Response In: 254]
```

информация
ответ
нет

в)

```
Class: IN (0x0001)
Answers
  www.spbu.ru: type CNAME, class IN, cname spbu.ru
    Name: www.spbu.ru
    Type: CNAME (Canonical Name for an alias) (5)
    Class: IN (0x0001)
    Time to Live: 3600 (1 hour)
    Data length: 2
  spbu.ru: type A, class IN, addr 82.202.196.112
    Name: spbu.ru
    Type: A (Host Address) (1)
    Class: IN (0x0001)
    Time to Live: 3600 (1 hour)
    Data length: 4
    Address: 82.202.196.112
  Additional records
    [Response: 101/253]
    [Time: 0.02500000 seconds]
```

ответа 2, но название
или другие ответы

Задание 6

1. Это протокол записей и ответы, широко используемый
для записей с БД, где хранятся записанные
пользователи и т.д.

2. Использование да whois

3.

128.214.189.90 - Geo Information

IP Address: 128.214.189.90
Host: adc-vip3.it.helsinki.fi
Location: Helsinki, Finland
City: Helsinki, 13 00000
Organization: University of Helsinki
ISP: CSC - Tieteen tieteknillinen keskus Oy
AS Number: AS2744 Tieteen tieteknillinen keskus Oy
Latitude: 60° 17' 50" North
Longitude: 24° 54' 00" East
Distance: 1948.05 km (1210.46 miles)

Map Location: World Map Google Maps Yahoo Maps Microsoft Live Maps

128.214.189.90 - Geo Information

IP Address: 128.214.189.90
Host: adc-vip3.it.helsinki.fi
Location: Helsinki, Finland
City: Helsinki, 13 00000
Organization: CSC - Tieteen tieteknillinen keskus Oy
ISP: CSC - Tieteen tieteknillinen keskus Oy
AS Number: AS2744 Tieteen tieteknillinen keskus Oy
Latitude: 60° 17' 50" North
Longitude: 24° 54' 00" East
Distance: 1948.05 km (1210.46 miles)

Map Location: World Map Google Maps Yahoo Maps Microsoft Live Maps

снова IP
и идентификатор
сначала

```
alexandrakuzmina@MacBook-Pro-Alexandra ~ % nslookup -type=soa www.helsinki.fi
Server: 10.1.0.1
Address: 10.1.0.1#53
```

Non-authoritative answer:
www.helsinki.fi canonical name = adc-vip3.it.helsinki.fi.

Authoritative answers can be found from:
it.helsinki.fi

```
origin = serifos.helsinki.fi
mail add = hostmaster.helsinki.fi
serial = 2522831854
refresh = 3600
retry = 900
expire = 3600000
minimum = 900
```