

Часть 1

Вариант: 1

Сеть	Сеть 1	Сеть 2	Сеть 3	Сеть 4	Сеть 5
IP-сети, маска	194.85.32.160/28 255.255.255.240	194.85.32.176/28 255.255.255.240	194.85.32.192/29 255.255.255.248	194.85.32.128/27 255.255.255.224	194.85.32.0/25 255.255.255.128
Количество IP адресов в IP-сети	16	16	8	32	128
Начальный и конечный адреса сети, пригодные для адресации портов маршрутизаторов и компьютеров.	194.85.32.161 194.85.32.174	194.85.32.177 194.85.32.190	194.85.32.193 194.85.32.198	194.85.32.129 194.85.32.158	194.85.32.1 194.85.32.126

Вариант: 2

Сеть	Сеть 1	Сеть 2	Сеть 3	Сеть 4	Сеть 5
IP-сети, маска	10.12.13.128/27 255.255.255.224	10.12.13.160/27 255.255.255.224	10.12.12.0/24 255.255.255.0	10.12.13.0/25 255.255.255.128	10.12.13.192/30 255.255.255.252
Количество IP адресов в IP-сети	32	32	256	128	4
Начальный и конечный адреса сети, пригодные для адресации портов маршрутизаторов и компьютеров.	10.12.13.129 10.12.13.158	10.12.13.161 10.12.13.190	10.12.12.1 10.12.12.254	10.12.13.1 10.12.13.126	10.12.13.193 10.12.13.194

Вариант: 3

Сеть	Сеть 1	Сеть 2	Сеть 3	Сеть 4	Сеть 5
IP-сети, маска	212.24.15.224/28 255.255.255.240	212.24.15.248/30 255.255.255.252	212.24.15.240/29 255.255.255.248	212.24.15.192/28 255.255.255.240	212.24.15.208/28 255.255.255.240
Количество IP адресов в IP-сети	16	4	8	16	16
Начальный и конечный адреса сети, пригодные для адресации портов маршрутизаторов и компьютеров.	212.24.15.225 212.24.15.238	212.24.15.249 212.24.15.250	212.24.15.241 212.24.15.246	212.24.15.193 212.24.15.206	212.24.15.209 212.24.15.222

Вариант: 4

Сеть	Сеть 1	Сеть 2	Сеть 3	Сеть 4	Сеть 5
IP-сети, маска	120.13.120.96/29 255.255.255.248	120.13.120.112/29 255.255.255.248	120.13.120.104/29 255.255.255.248	120.13.120.120/30 255.255.255.252	120.13.120.124/30 255.255.255.252
Количество IP адресов в IP-сети	8	8	8	4	4
Начальный и конечный адреса сети, пригодные для адресации портов маршрутизаторов и компьютеров.	120.13.120.97 120.13.120.102	120.13.120.113 120.13.120.118	120.13.120.105 120.13.120.110	120.13.120.121 120.13.120.122	120.13.120.125 120.13.120.126

Часть 2

Вариант 1

```
(kali@kali)-[~]
$ ipcalc 194.85.32.19/24 -s 101 19 11 8 4
Address: 194.85.32.19      11000010.01010101.00100000. 00010011
Netmask: 255.255.255.0 = 24 11111111.11111111.11111111. 00000000
Wildcard: 0.0.0.255      00000000.00000000.00000000. 11111111
⇒
Network: 194.85.32.0/24    11000010.01010101.00100000. 00000000
HostMin: 194.85.32.1      11000010.01010101.00100000. 00000001
HostMax: 194.85.32.254    11000010.01010101.00100000. 11111110
Broadcast: 194.85.32.255  11000010.01010101.00100000. 11111111
Hosts/Net: 254           Class C

1. Requested size: 101 hosts
Netmask: 255.255.255.128 = 25 11111111.11111111.11111111.1 00000000
Network: 194.85.32.0/25    11000010.01010101.00100000. 0 0000000
HostMin: 194.85.32.1      11000010.01010101.00100000. 0 0000001
HostMax: 194.85.32.126   11000010.01010101.00100000. 0 11111110
Broadcast: 194.85.32.127  11000010.01010101.00100000. 0 11111111
Hosts/Net: 126           Class C

2. Requested size: 19 hosts
Netmask: 255.255.255.224 = 27 11111111.11111111.11111111.111 000000
Network: 194.85.32.128/27  11000010.01010101.00100000.100 000000
HostMin: 194.85.32.129    11000010.01010101.00100000.100 000001
HostMax: 194.85.32.158    11000010.01010101.00100000.100 111110
Broadcast: 194.85.32.159  11000010.01010101.00100000.100 111111
Hosts/Net: 30           Class C

3. Requested size: 11 hosts
Netmask: 255.255.255.240 = 28 11111111.11111111.11111111.1111 0000
Network: 194.85.32.160/28  11000010.01010101.00100000.1010 0000
HostMin: 194.85.32.161    11000010.01010101.00100000.1010 0001
HostMax: 194.85.32.174    11000010.01010101.00100000.1010 1110
Broadcast: 194.85.32.175  11000010.01010101.00100000.1010 1111
Hosts/Net: 14           Class C

4. Requested size: 8 hosts
Netmask: 255.255.255.240 = 28 11111111.11111111.11111111.1111 0000
Network: 194.85.32.176/28  11000010.01010101.00100000.1011 0000
HostMin: 194.85.32.177    11000010.01010101.00100000.1011 0001
HostMax: 194.85.32.190    11000010.01010101.00100000.1011 1110
Broadcast: 194.85.32.191  11000010.01010101.00100000.1011 1111
Hosts/Net: 14           Class C

5. Requested size: 4 hosts
Netmask: 255.255.255.248 = 29 11111111.11111111.11111111.11111 000
Network: 194.85.32.192/29  11000010.01010101.00100000.11000 000
HostMin: 194.85.32.193    11000010.01010101.00100000.11000 001
HostMax: 194.85.32.198    11000010.01010101.00100000.11000 110
Broadcast: 194.85.32.199  11000010.01010101.00100000.11000 111
Hosts/Net: 6           Class C

Needed size: 200 addresses.
```

```
(kali@kali)-[~]
$ ipcalc 194.85.32.19/24 -s 101 19 11 8 4
Network: 194.85.32.0/24    11000010.01010101.00100000. 00000000
HostMin: 194.85.32.1      11000010.01010101.00100000. 00000001
HostMax: 194.85.32.254    11000010.01010101.00100000. 11111110
Broadcast: 194.85.32.255  11000010.01010101.00100000. 11111111
Hosts/Net: 254           Class C

1. Requested size: 101 hosts
Netmask: 255.255.255.128 = 25 11111111.11111111.11111111.1 00000000
Network: 194.85.32.0/25    11000010.01010101.00100000. 0 0000000
HostMin: 194.85.32.1      11000010.01010101.00100000. 0 0000001
HostMax: 194.85.32.126   11000010.01010101.00100000. 0 11111110
Broadcast: 194.85.32.127  11000010.01010101.00100000. 0 11111111
Hosts/Net: 126           Class C

2. Requested size: 19 hosts
Netmask: 255.255.255.224 = 27 11111111.11111111.11111111.111 000000
Network: 194.85.32.128/27  11000010.01010101.00100000.100 000000
HostMin: 194.85.32.129    11000010.01010101.00100000.100 000001
HostMax: 194.85.32.158    11000010.01010101.00100000.100 111110
Broadcast: 194.85.32.159  11000010.01010101.00100000.100 111111
Hosts/Net: 30           Class C

3. Requested size: 11 hosts
Netmask: 255.255.255.240 = 28 11111111.11111111.11111111.1111 0000
Network: 194.85.32.160/28  11000010.01010101.00100000.1010 0000
HostMin: 194.85.32.161    11000010.01010101.00100000.1010 0001
HostMax: 194.85.32.174    11000010.01010101.00100000.1010 1110
Broadcast: 194.85.32.175  11000010.01010101.00100000.1010 1111
Hosts/Net: 14           Class C

4. Requested size: 8 hosts
Netmask: 255.255.255.240 = 28 11111111.11111111.11111111.1111 0000
Network: 194.85.32.176/28  11000010.01010101.00100000.1011 0000
HostMin: 194.85.32.177    11000010.01010101.00100000.1011 0001
HostMax: 194.85.32.190    11000010.01010101.00100000.1011 1110
Broadcast: 194.85.32.191  11000010.01010101.00100000.1011 1111
Hosts/Net: 14           Class C

5. Requested size: 4 hosts
Netmask: 255.255.255.248 = 29 11111111.11111111.11111111.11111 000
Network: 194.85.32.192/29  11000010.01010101.00100000.11000 000
HostMin: 194.85.32.193    11000010.01010101.00100000.11000 001
HostMax: 194.85.32.198    11000010.01010101.00100000.11000 110
Broadcast: 194.85.32.199  11000010.01010101.00100000.11000 111
Hosts/Net: 6           Class C

Needed size: 200 addresses.
Used network: 194.85.32.0/24
Unused:
194.85.32.200/29
194.85.32.208/28
194.85.32.224/27
```

Вариант 2

```
(kali@kali)-[~]
$ ipcalc 10.12.12.15/23 -s 243 118 26 18 2
Address: 10.12.12.15      00001010.00001100.0000110 0.00001111
Netmask: 255.255.254.0 = 23 11111111.11111111.1111111 0.00000000
Wildcard: 0.0.1.255      00000000.00000000.0000000 1.11111111
⇒
Network: 10.12.12.0/23    00001010.00001100.0000110 0.00000000
HostMin: 10.12.12.1      00001010.00001100.0000110 0.00000001
HostMax: 10.12.13.254    00001010.00001100.0000110 1.11111110
Broadcast: 10.12.13.255  00001010.00001100.0000110 1.11111111
Hosts/Net: 510           Class A, Private Internet

1. Requested size: 243 hosts
Netmask: 255.255.255.0 = 24 11111111.11111111.1111111 0.00000000
Network: 10.12.12.0/24    00001010.00001100.0000110 0.00000000
HostMin: 10.12.12.1      00001010.00001100.0000110 0.00000001
HostMax: 10.12.12.254    00001010.00001100.0000110 1.11111110
Broadcast: 10.12.12.255  00001010.00001100.0000110 1.11111111
Hosts/Net: 254           Class A, Private Internet

2. Requested size: 118 hosts
Netmask: 255.255.255.128 = 25 11111111.11111111.1111111 1.00000000
Network: 10.12.13.0/25    00001010.00001100.0000110 1.00000000
HostMin: 10.12.13.1      00001010.00001100.0000110 1.00000001
HostMax: 10.12.13.126    00001010.00001100.0000110 1.11111110
Broadcast: 10.12.13.127  00001010.00001100.0000110 1.11111111
Hosts/Net: 126           Class A, Private Internet

3. Requested size: 26 hosts
Netmask: 255.255.255.224 = 27 11111111.11111111.1111111 1.111 00000
Network: 10.12.13.128/27  00001010.00001100.0000110 1.100 00000
HostMin: 10.12.13.129    00001010.00001100.0000110 1.100 00001
HostMax: 10.12.13.158    00001010.00001100.0000110 1.100 11110
Broadcast: 10.12.13.159  00001010.00001100.0000110 1.100 11111
Hosts/Net: 30             Class A, Private Internet

4. Requested size: 18 hosts
Netmask: 255.255.255.224 = 27 11111111.11111111.1111111 1.111 00000
Network: 10.12.13.160/27  00001010.00001100.0000110 1.101 00000
HostMin: 10.12.13.161    00001010.00001100.0000110 1.101 00001
HostMax: 10.12.13.190    00001010.00001100.0000110 1.101 11110
Broadcast: 10.12.13.191  00001010.00001100.0000110 1.101 11111
Hosts/Net: 30             Class A, Private Internet

5. Requested size: 2 hosts
Netmask: 255.255.255.252 = 30 11111111.11111111.1111111 1.11111 00
Network: 10.12.13.192/30  00001010.00001100.0000110 1.110000 00
HostMin: 10.12.13.193    00001010.00001100.0000110 1.110000 01
HostMax: 10.12.13.194    00001010.00001100.0000110 1.110000 10
Broadcast: 10.12.13.195  00001010.00001100.0000110 1.110000 11
Hosts/Net: 2              Class A, Private Internet

Needed size: 452 addresses.
```

```
(kali@kali)-[~]
Broadcast: 10.12.13.255      00001010.00001100.0000110 1.11111111
Hosts/Net: 510              Class A, Private Internet

1. Requested size: 243 hosts
Netmask: 255.255.255.0 = 24 11111111.11111111.1111111 0.00000000
Network: 10.12.12.0/24    00001010.00001100.0000110 0.00000000
HostMin: 10.12.12.1      00001010.00001100.0000110 0.00000001
HostMax: 10.12.12.254    00001010.00001100.0000110 1.11111110
Broadcast: 10.12.12.255  00001010.00001100.0000110 1.11111111
Hosts/Net: 254           Class A, Private Internet

2. Requested size: 118 hosts
Netmask: 255.255.255.128 = 25 11111111.11111111.1111111 1.00000000
Network: 10.12.13.0/25    00001010.00001100.0000110 1.00000000
HostMin: 10.12.13.1      00001010.00001100.0000110 1.00000001
HostMax: 10.12.13.126    00001010.00001100.0000110 1.11111110
Broadcast: 10.12.13.127  00001010.00001100.0000110 1.11111111
Hosts/Net: 126           Class A, Private Internet

3. Requested size: 26 hosts
Netmask: 255.255.255.224 = 27 11111111.11111111.1111111 1.111 00000
Network: 10.12.13.128/27  00001010.00001100.0000110 1.100 00000
HostMin: 10.12.13.129    00001010.00001100.0000110 1.100 00001
HostMax: 10.12.13.158    00001010.00001100.0000110 1.100 11110
Broadcast: 10.12.13.159  00001010.00001100.0000110 1.100 11111
Hosts/Net: 30             Class A, Private Internet

4. Requested size: 18 hosts
Netmask: 255.255.255.224 = 27 11111111.11111111.1111111 1.111 00000
Network: 10.12.13.160/27  00001010.00001100.0000110 1.101 00000
HostMin: 10.12.13.161    00001010.00001100.0000110 1.101 00001
HostMax: 10.12.13.190    00001010.00001100.0000110 1.101 11110
Broadcast: 10.12.13.191  00001010.00001100.0000110 1.101 11111
Hosts/Net: 30             Class A, Private Internet

5. Requested size: 2 hosts
Netmask: 255.255.255.252 = 30 11111111.11111111.1111111 1.11111 00
Network: 10.12.13.192/30  00001010.00001100.0000110 1.110000 00
HostMin: 10.12.13.193    00001010.00001100.0000110 1.110000 01
HostMax: 10.12.13.194    00001010.00001100.0000110 1.110000 10
Broadcast: 10.12.13.195  00001010.00001100.0000110 1.110000 11
Hosts/Net: 2              Class A, Private Internet

Needed size: 452 addresses.
Used network: 10.12.12.0/23
Unused:
10.12.13.196/30
10.12.13.200/29
10.12.13.208/28
10.12.13.224/27

(kali@kali)-[~]
$
```

Вариант 3

```
(kali@kali)-[~]
$ ipcalc 212.24.15.199/26 -s 12 11 8 3 2
Address: 212.24.15.199      11010100.00011000.00001111.11 000111
Netmask: 255.255.255.192 = 26 11111111.11111111.11111111.11 000000
Wildcard: 0.0.0.63          00000000.00000000.00000000.00 111111
⇒
Network: 212.24.15.192/26    11010100.00011000.00001111.11 000000
HostMin: 212.24.15.193      11010100.00011000.00001111.11 000001
HostMax: 212.24.15.254      11010100.00011000.00001111.11 111110
Broadcast: 212.24.15.255    11010100.00011000.00001111.11 111111
Hosts/Net: 62                Class C

1. Requested size: 12 hosts
Netmask: 255.255.255.240 = 28 11111111.11111111.11111111.1111 0000
Network: 212.24.15.192/28    11010100.00011000.00001111.1100 0000
HostMin: 212.24.15.193      11010100.00011000.00001111.1100 0001
HostMax: 212.24.15.206      11010100.00011000.00001111.1100 1110
Broadcast: 212.24.15.207    11010100.00011000.00001111.1100 1111
Hosts/Net: 14                Class C

2. Requested size: 11 hosts
Netmask: 255.255.255.240 = 28 11111111.11111111.11111111.1111 0000
Network: 212.24.15.208/28    11010100.00011000.00001111.1101 0000
HostMin: 212.24.15.209      11010100.00011000.00001111.1101 0001
HostMax: 212.24.15.222      11010100.00011000.00001111.1101 1110
Broadcast: 212.24.15.223    11010100.00011000.00001111.1101 1111
Hosts/Net: 14                Class C

3. Requested size: 8 hosts
Netmask: 255.255.255.240 = 28 11111111.11111111.11111111.1111 0000
Network: 212.24.15.224/28    11010100.00011000.00001111.1110 0000
HostMin: 212.24.15.225      11010100.00011000.00001111.1110 0001
HostMax: 212.24.15.238      11010100.00011000.00001111.1110 1110
Broadcast: 212.24.15.239    11010100.00011000.00001111.1110 1111
Hosts/Net: 14                Class C

4. Requested size: 3 hosts
Netmask: 255.255.255.248 = 29 11111111.11111111.11111111.11111 000
Network: 212.24.15.240/29    11010100.00011000.00001111.11110 000
HostMin: 212.24.15.241      11010100.00011000.00001111.11110 001
HostMax: 212.24.15.246      11010100.00011000.00001111.11110 110
Broadcast: 212.24.15.247    11010100.00011000.00001111.11110 111
Hosts/Net: 6                Class C

5. Requested size: 2 hosts
Netmask: 255.255.255.252 = 30 11111111.11111111.11111111.11111 00
Network: 212.24.15.248/30    11010100.00011000.00001111.11110 00
HostMin: 212.24.15.249      11010100.00011000.00001111.11110 01
HostMax: 212.24.15.250      11010100.00011000.00001111.11110 10
Broadcast: 212.24.15.251    11010100.00011000.00001111.11110 11
Hosts/Net: 2                Class C

Needed size: 60 addresses.
```

```
(kali@kali)-[~]
$ ipcalc 212.24.15.199/26 -s 12 11 8 3 2
Network: 212.24.15.192/26    11010100.00011000.00001111.11 000000
HostMin: 212.24.15.193      11010100.00011000.00001111.11 000001
HostMax: 212.24.15.254      11010100.00011000.00001111.11 111110
Broadcast: 212.24.15.255    11010100.00011000.00001111.11 111111
Hosts/Net: 62                Class C

1. Requested size: 12 hosts
Netmask: 255.255.255.240 = 28 11111111.11111111.11111111.1111 0000
Network: 212.24.15.192/28    11010100.00011000.00001111.1100 0000
HostMin: 212.24.15.193      11010100.00011000.00001111.1100 0001
HostMax: 212.24.15.206      11010100.00011000.00001111.1100 1110
Broadcast: 212.24.15.207    11010100.00011000.00001111.1100 1111
Hosts/Net: 14                Class C

2. Requested size: 11 hosts
Netmask: 255.255.255.240 = 28 11111111.11111111.11111111.1111 0000
Network: 212.24.15.208/28    11010100.00011000.00001111.1101 0000
HostMin: 212.24.15.209      11010100.00011000.00001111.1101 0001
HostMax: 212.24.15.222      11010100.00011000.00001111.1101 1110
Broadcast: 212.24.15.223    11010100.00011000.00001111.1101 1111
Hosts/Net: 14                Class C

3. Requested size: 8 hosts
Netmask: 255.255.255.240 = 28 11111111.11111111.11111111.1111 0000
Network: 212.24.15.224/28    11010100.00011000.00001111.1110 0000
HostMin: 212.24.15.225      11010100.00011000.00001111.1110 0001
HostMax: 212.24.15.238      11010100.00011000.00001111.1110 1110
Broadcast: 212.24.15.239    11010100.00011000.00001111.1110 1111
Hosts/Net: 14                Class C

4. Requested size: 3 hosts
Netmask: 255.255.255.248 = 29 11111111.11111111.11111111.11111 000
Network: 212.24.15.240/29    11010100.00011000.00001111.11110 000
HostMin: 212.24.15.241      11010100.00011000.00001111.11110 001
HostMax: 212.24.15.246      11010100.00011000.00001111.11110 110
Broadcast: 212.24.15.247    11010100.00011000.00001111.11110 111
Hosts/Net: 6                Class C

5. Requested size: 2 hosts
Netmask: 255.255.255.252 = 30 11111111.11111111.11111111.11111 00
Network: 212.24.15.248/30    11010100.00011000.00001111.11110 00
HostMin: 212.24.15.249      11010100.00011000.00001111.11110 01
HostMax: 212.24.15.250      11010100.00011000.00001111.11110 10
Broadcast: 212.24.15.251    11010100.00011000.00001111.11110 11
Hosts/Net: 2                Class C

Needed size: 60 addresses.
Used network: 212.24.15.192/26
Unused:
212.24.15.252/30
```

Вариант 4

```
(kali@kali)-[~]
$ ipcalc 120.13.120.120 -s 6 5 4 2 2
Address: 120.13.120.120 01111000.00001101.01111000.011 11000
Netmask: 255.255.255.224 = 27 11111111.11111111.11111111.111 00000
Wildcard: 0.0.0.31 00000000.00000000.00000000.000 11111
⇒
Network: 120.13.120.96/27 01111000.00001101.01111000.011 00000
HostMin: 120.13.120.97 01111000.00001101.01111000.011 00001
HostMax: 120.13.120.126 01111000.00001101.01111000.011 11110
Broadcast: 120.13.120.127 01111000.00001101.01111000.011 11111
Hosts/Net: 30 Class A

1. Requested size: 6 hosts
Netmask: 255.255.255.248 = 29 11111111.11111111.11111111.11111 000
Network: 120.13.120.96/29 01111000.00001101.01111000.01100 000
HostMin: 120.13.120.97 01111000.00001101.01111000.01100 001
HostMax: 120.13.120.102 01111000.00001101.01111000.01100 110
Broadcast: 120.13.120.103 01111000.00001101.01111000.01100 111
Hosts/Net: 6 Class A

2. Requested size: 5 hosts
Netmask: 255.255.255.248 = 29 11111111.11111111.11111111.11111 000
Network: 120.13.120.104/29 01111000.00001101.01111000.01101 000
HostMin: 120.13.120.105 01111000.00001101.01111000.01101 001
HostMax: 120.13.120.110 01111000.00001101.01111000.01101 110
Broadcast: 120.13.120.111 01111000.00001101.01111000.01101 111
Hosts/Net: 6 Class A

3. Requested size: 4 hosts
Netmask: 255.255.255.248 = 29 11111111.11111111.11111111.11111 000
Network: 120.13.120.112/29 01111000.00001101.01111000.01110 000
HostMin: 120.13.120.113 01111000.00001101.01111000.01110 001
HostMax: 120.13.120.118 01111000.00001101.01111000.01110 110
Broadcast: 120.13.120.119 01111000.00001101.01111000.01110 111
Hosts/Net: 6 Class A

4. Requested size: 2 hosts
Netmask: 255.255.255.252 = 30 11111111.11111111.11111111.11111 00
Network: 120.13.120.120/30 01111000.00001101.01111000.011110 00
HostMin: 120.13.120.121 01111000.00001101.01111000.011110 01
HostMax: 120.13.120.122 01111000.00001101.01111000.011110 10
Broadcast: 120.13.120.123 01111000.00001101.01111000.011110 11
Hosts/Net: 2 Class A

5. Requested size: 2 hosts
Netmask: 255.255.255.252 = 30 11111111.11111111.11111111.11111 00
Network: 120.13.120.124/30 01111000.00001101.01111000.011111 00
HostMin: 120.13.120.125 01111000.00001101.01111000.011111 01
HostMax: 120.13.120.126 01111000.00001101.01111000.011111 10
Broadcast: 120.13.120.127 01111000.00001101.01111000.011111 11
Hosts/Net: 2 Class A
```

```
(kali@kali)-[~]
$ ipcalc 120.13.120.120 -s 6 5 4 2 2
Network: 120.13.120.96/27 01111000.00001101.01111000.011 00000
HostMin: 120.13.120.97 01111000.00001101.01111000.011 00001
HostMax: 120.13.120.126 01111000.00001101.01111000.011 11110
Broadcast: 120.13.120.127 01111000.00001101.01111000.011 11111
Hosts/Net: 30 Class A

1. Requested size: 6 hosts
Netmask: 255.255.255.248 = 29 11111111.11111111.11111111.11111 000
Network: 120.13.120.96/29 01111000.00001101.01111000.01100 000
HostMin: 120.13.120.97 01111000.00001101.01111000.01100 001
HostMax: 120.13.120.102 01111000.00001101.01111000.01100 110
Broadcast: 120.13.120.103 01111000.00001101.01111000.01100 111
Hosts/Net: 6 Class A

2. Requested size: 5 hosts
Netmask: 255.255.255.248 = 29 11111111.11111111.11111111.11111 000
Network: 120.13.120.104/29 01111000.00001101.01111000.01101 000
HostMin: 120.13.120.105 01111000.00001101.01111000.01101 001
HostMax: 120.13.120.110 01111000.00001101.01111000.01101 110
Broadcast: 120.13.120.111 01111000.00001101.01111000.01101 111
Hosts/Net: 6 Class A

3. Requested size: 4 hosts
Netmask: 255.255.255.248 = 29 11111111.11111111.11111111.11111 000
Network: 120.13.120.112/29 01111000.00001101.01111000.01110 000
HostMin: 120.13.120.113 01111000.00001101.01111000.01110 001
HostMax: 120.13.120.118 01111000.00001101.01111000.01110 110
Broadcast: 120.13.120.119 01111000.00001101.01111000.01110 111
Hosts/Net: 6 Class A

4. Requested size: 2 hosts
Netmask: 255.255.255.252 = 30 11111111.11111111.11111111.11111 00
Network: 120.13.120.120/30 01111000.00001101.01111000.011110 00
HostMin: 120.13.120.121 01111000.00001101.01111000.011110 01
HostMax: 120.13.120.122 01111000.00001101.01111000.011110 10
Broadcast: 120.13.120.123 01111000.00001101.01111000.011110 11
Hosts/Net: 2 Class A

5. Requested size: 2 hosts
Netmask: 255.255.255.252 = 30 11111111.11111111.11111111.11111 00
Network: 120.13.120.124/30 01111000.00001101.01111000.011111 00
HostMin: 120.13.120.125 01111000.00001101.01111000.011111 01
HostMax: 120.13.120.126 01111000.00001101.01111000.011111 10
Broadcast: 120.13.120.127 01111000.00001101.01111000.011111 11
Hosts/Net: 2 Class A

Needed size: 32 addresses.
Used network: 120.13.120.96/27
Unused:
```