```
Class A N.H.H.H 255.0.0.0
Class B N.N.H.H 255.255.0.0
Class C N.N.N.H 255.255.255.0


2^8 - 2 = 254
2^16    = 65536
2^24    < 16 milyon


10 ofis, 300 pc


10 adet Class B
10 Network
2^16 65536 host/network


152.48.0.0
152.49.0.0
152.50.0.0
…
152.57.0.0
```

Şirket: 7 şehirde ofisi
500 host/ofis

133.86.0.0 / 255.255.0.0

10000101.01010110.00000000.00000000

Subnet

10000101.01010110.00000000.00000000 - 133.86.0.0/255.255.224.0
10000101.01010110.00100000.00000000 - 133.86.32.0/255.255.224.0
10000101.01010110.01000000.00000000 - 133.86.64.0/255.255.224.0
10000101.01010110.01100000.00000000 - 133.86.96.0/255.255.224.0
10000101.01010110.10000000.00000000 - 133.86.128.0/255.255.224.0
10000101.01010110.10100000.00000000 - 133.86.160.0/255.255.224.0
10000101.01010110.11000000.00000000 - 133.86.192.0/255.255.224.0
10000101.01010110.11100000.00000000 - 133.86.224.0 reserved

LAN-1

10000101.01010110.00000000.00000000 - 133.86.0.0
                                          Loopback test
10000101.01010110.00011111.11111111 - 133.86.31.255
                                          b/c address

10000101.01010110.00000000.00000001 - 133.86.0.1
10000101.01010110.00000000.00000010 - 133.86.0.2
10000101.01010110.00000000.00000011 - 133.86.0.3
.
10000101.01010110.00000000.11111111 - 133.86.0.255
10000101.01010110.00000001.00000000 - 133.86.1.0
10000101.01010110.00000001.00000001 - 133.86.1.1
10000101.01010110.00000001.00000010 - 133.86.1.2
.
10000101.01010110.00000001.11110101 - 133.86.1.245

LAN-2

10000101.01010110.00100000.00000000 – 133.86.32.0
10000101.01010110.00111111.11111111 – 133.86.63.255

10000101.01010110.00100000.00000001 – 133.86.32.1
10000101.01010110.00100000.00000010 – 133.86.32.2
.
10000101.01010110.00100000.11111111 – 133.86.32.255
10000101.01010110.00100001.00000000 – 133.86.33.0
10000101.01010110.00100001.00000001 – 133.86.33.1
10000101.01010110.00100001.00000010 – 133.86.33.2
.
10000101.01010110.00100001.11110101 – 133.86.33.245

133.86.165.55/ 255.255.224.0

Subnet mask

10000101.01010110.00100000.00000010

```
11111111.11111111.11100000.00000000 -> subnet mask
255.255.224.0


133.86.165.55
10000101.01010110.10100101.00110111
11111111.11111111.11100000.00000000
10000101.01010110.10100000.00000000 -> 133.86.160.0



133.86.236.47
10000101.01010110.11101100.00101111
11111111.11111111.11100000.00000000
10000101.01010110.11100000.00000000 -> 133.86.224.0

133.86.236.47/19
```

```
1    0    0    1    1    1    0    1 == 157
128 64   32   16   8    4    2    1
128+0   +0   +16 +8   +4   +0   +1 = 157


237
1      1      1    0    1    1    0    1
128+ 64 +   32 + 0 + 8 + 4 + 0 +1



T T : T
F T : F
T F : F
F F : F
```

```
45.86.75.241/15
45.86.75.241 255.254.0.0

11111111.11111110.00000000.00000000 -> 255.254.0.0
```