

192, 168, 1.

0
1
:
254
255

192, 168, 1.0/24

$2^x - 2$

CLASS 0 A 7

→ 2

0 XXXXXX . 0 . 0 . 0 / 8

[0 . 0 . 0 . 0 / 8 ↵
127 . 0 . 0 . 0 / 8 ↵

50, 0.0, 0 / 8

[50, 0, 0, 1
50, 33, 157, 12
50, 255, 255, 254

CLASS B

10 XXXXXXXXXX.XXXXXXXX.0.0/16

128.0.0.0/16

191.255.0.0/16

F

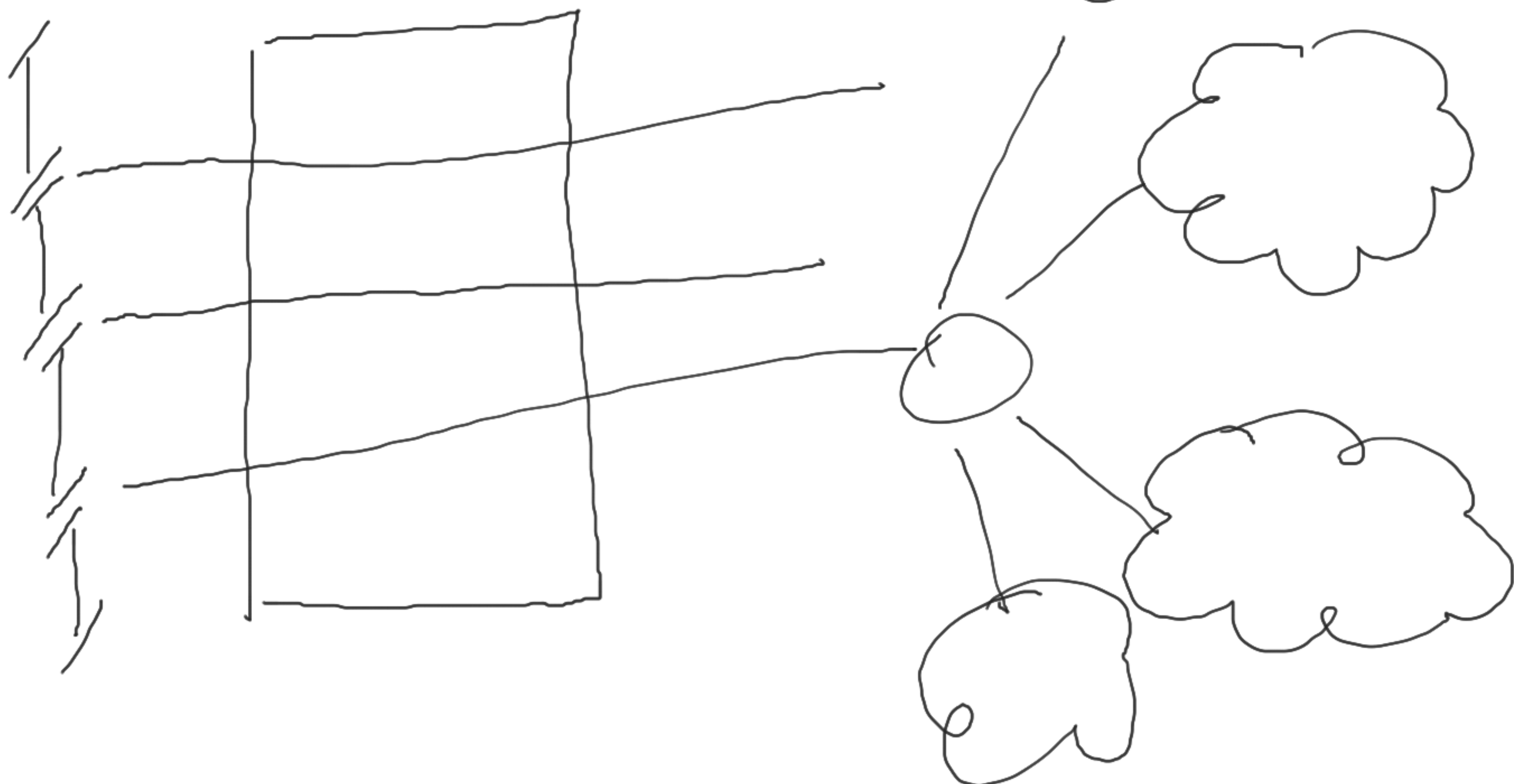
255 - 64

135.24.0.0 / 16

[135.24.0.1

[135.24.255.254

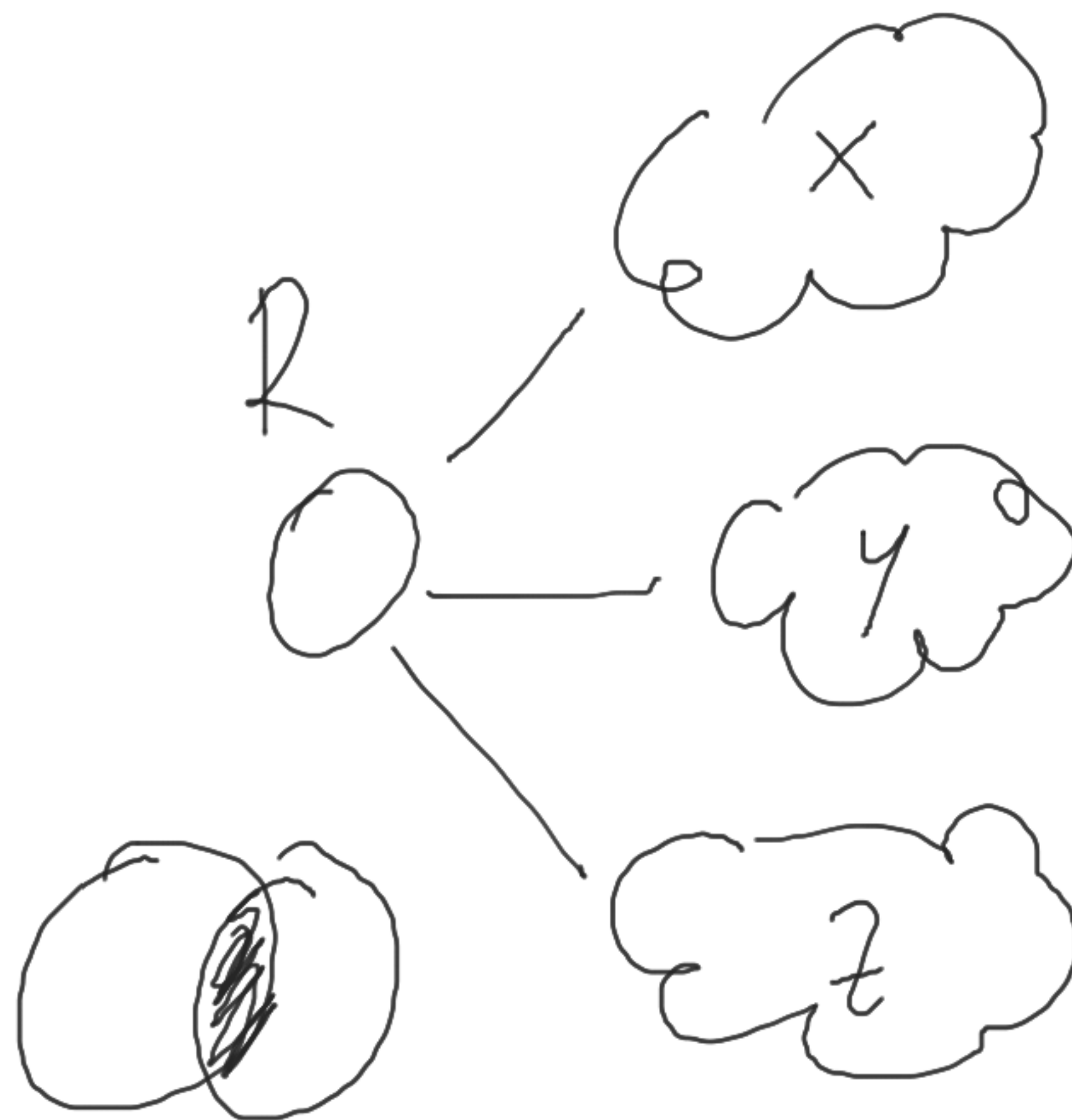
SUBNETTING
CON MASCHERA A LUNGHZZA FISSA



192, 168, 1.0 / 24

✓

.63	①	.0
.127	②	.64
.191	③	.128
.255	④	.192



• X X X X X X X X / 24

• Y Y X X X X X X / 26

[

SUBNET ID

2^7

y

 2^6

y

0

0

 \Rightarrow

192. 168. 1. 0 / 26

0

1

 \Rightarrow

192. 168. 1. 64 / 26

1

0

 \Rightarrow

192. 168. 1. 128 / 26

1

1

 \Rightarrow

192. 168. 1. 192 / 26

192.168.1.0/24

5 sottoreti

→ Prefisso di sottoreti?

= DIM. sottoreti?

$$5 \leq 2^4$$

y: SUBN37-1D
LENGTH

CH

$$y = 3$$

y y y x x x x x / 27

$$2^7 \quad 2^6 \quad (2^5)$$

$$\cdot 0 / 27$$

$$\cdot 32 / 27$$

$$\cdot 64 / 27$$

$$\cdot 96 / 27$$

$$\cdot 128 / 27$$

$$\cdot 160 / 27$$

$$\cdot 192 / 27$$

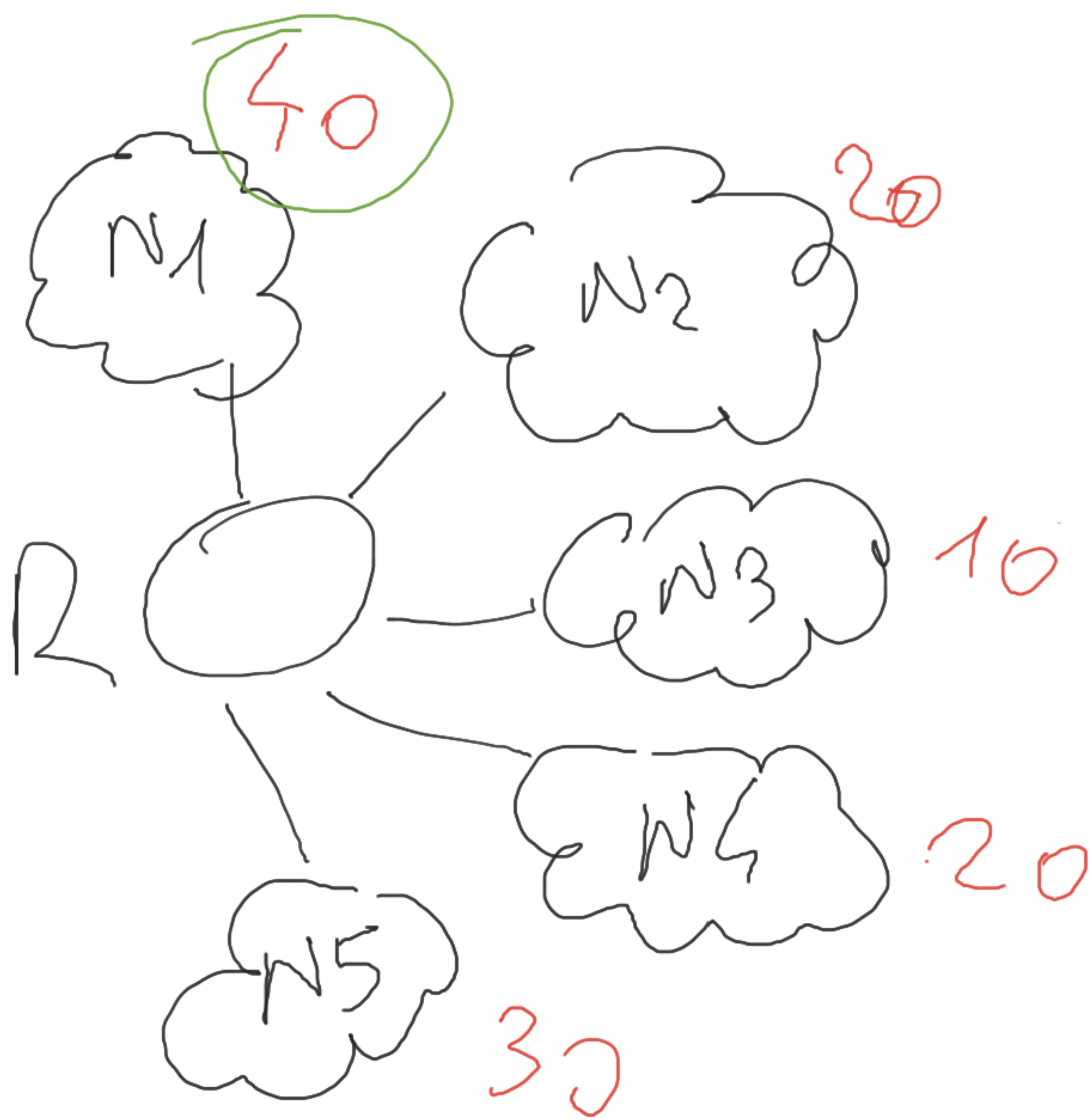
$$\cdot 224 / 27$$

• $\underbrace{Y \ Y \ Y}_{\text{SUBNET_ID}} \underbrace{X \ X \ X \ X \ X}_{\text{HOST_ID} \equiv h}$

SUBNET_ID

HOST_ID $\equiv h$

$$\dim SR = \overset{h}{2} - 2 = \overset{5}{2} - 2 = 3_0$$



192.168.1.0/24

~~N1 : 40~~

~~N2 : 20~~

~~N3 : 10~~

~~N4 : 20~~

~~N5 : 30~~

N1

N5

N2

N4

N3

N1

N5

N2

N4

N3

• 0/26	0
	63
• 64/27	64
	95
• 96/27	96
	127
• 128/27	128
	159
• 160/28	160
	175
	255