

172.50.0.0 /16 → 1000 hosts per network

- ① 1024 512 256 128 64 32 16 8 4 2 1

10 bits

116 → ||||| . ||||| . 00000000 . 00000000

② saving the host!

↳ ||||| . ||||| . ||||| 00 . 00000000 → /22 → 255.255.252.0

Increment is 4 ↓

networks: 2^{X} = 2^6 = 64

hosts : $2^{\text{Y}} - 2 = 2^{10} - 2 = \underline{\underline{1022}}$

- ③ 172.50.0.0 - 172.50.3.255
- 172.50.4.0 - 172.50.7.255
- 172.50.8.0