NOTES

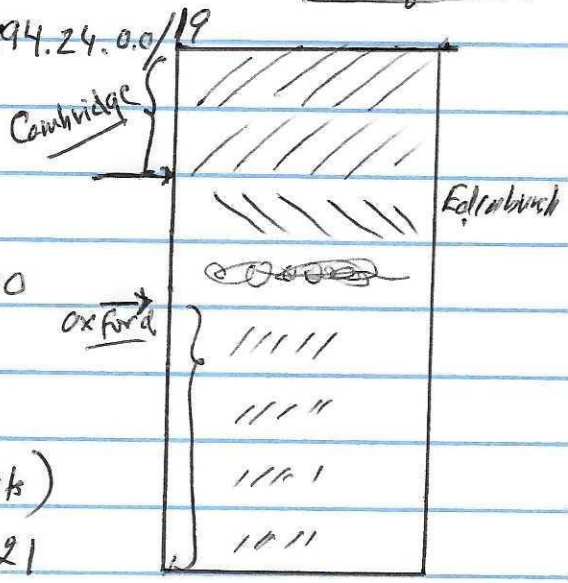
CIDR

Example: Block of 13 bits available = 8092 addresses
Available from: 194.24.0.0

11000010 . 00011000 . 0 . 0
↑194 ↑24

13 bits are ~~network~~ for host addresses
hence 19 bits for network.
Network part is:

194.24.000 00000.00000000
bits → 8 8 3 5 8



Cambridge assigned 2048 address. (11 bits)
Cambridge address space is 194.24.0.0 /21
Last Cambridge address: 194.24.000 00111.11111111
First address after: 194.24.00001000.00000000
194.24.8.0

Oxford wants 4096 addresses from this range.
How to allocate. Needs 12 bits.
Must start at: 194.24.000 10000.0000 0000
Must start at: 194.24.16.0 / 20

Edinburgh wants 1024 address. (10 bits)
Can be assigned from 194.24.8.0 / 22

Available 194.24.00001100.0000.0000.
Available 194.24.12.0 / 22