C21488

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- Subnetting homework

Assigned network: 192.168.24.0

Host address requests:

- 16 addresses for range A
- 127 addresses for range B
- 30 addresses for range C
- 15 addresses for range D
- 7 addresses for range F
- 63 addresses for range E

Little table

$2^2 = 4$

$2^3 = 8$

$2^4 = 16$

$2^5 = 32$

$2^6 = 64$

$2^7 = 128$

$2^8 = 256$

Task: ordering requests from bigger to lower, and assigning IP addresses from lower to higher, divide the original set to satisfy all requests

Primero vamos a sortear las solicitudes de los rangos de mayor a menor

Rango	sol addresses	tamaño de subred necesario
B	127	$127+2=129=2^8$
E	63	$63+2=65=2^7$
C	30	$30+2=32=2^5$
A	16	$16+2=18=2^5$
D	15	$15+2=17=2^5$
F	7	$7+2=9=2^4$

Rango B

Tamaño de subred necesario = 256

Mask = 24

Net = 192.168.24.0

Brodcast = 192.168.24.255

First: 192.168.24.1

Last = 192.168.24.254

Rango E

Tamaño de subred necesario = 128

Mask = 25

Net = 192.168.25.0

Brodcast = 192.168.25.127

First = 192.168.25.1

Last = 192.168.25.126

Rango C

Tamaño de Subred necesario = 32

Mask = 27

Net = 192.168.25.128

First = 192.168.25.129

Last = 192.168.25.158

Brodcast = 192.168.25.159

Rango A

Tamaño de Subred necesario = 32

Mask = 27

Net = 192.168.25.160

First = 192.168.25.161

Last = 192.168.25.190

Brodcast = 192.168.25.191

Rango B

Tamaño de Subred necesario = 32

Mask = 27

Net = 192.168.25.192

First = 192.168.25.193

Last = 192.168.25.222

Brodcast = 192.168.25.223

Rango F

Tamaño de Sub red necesario = 16

mask = 29

Net = 192.168.25.224

First = 192.168.25.225

Last = 192.168.25.238

Brodcast = 192.168.25.239