lab4

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- github lab link

task1

- `21 = 16 + 4 + 1 = 00010101`
- `111 = 64 + 32 + 8 + 4 + 2 + 1 = 01101111`
- `115 = 64 + 32 + 16 + 2 + 1 = 01110011`
- `186 = 128 + 32 + 16 + 8 + 2 = 10111010`

task2

ip	binary	type
`255.255.1.0`	`11111111.11111111.00000001.00000000`	INVALID IP or MASK
`128.61.0.1`	`10000000.00111101.00000000.00000001`	VALID IP
`192.201.255.254`	`11000000.11001001.11111111.11111110`	VALID IP
`214.47.8.160`	`11010110.00101111.00001000.10100000`	VALID IP
`223.256.72.120`	`11011111.100000000.01001000.01111000`	INVALID IP or MASK
`255.255.64.0`	`11111111.11111111.01000000.00000000`	INVALID IP or MASK
`218.212.34.255`	`11011010.11010100.00100010.11111111`	VALID IP
`255.253.254.0`	`11111111.11111101.11111110.00000000`	INVALID IP or MASK
`111.111.111.111`	`01101111.01101111.01101111.01101111`	VALID IP
`203.181.133.64`	`11001011.10110101.10000101.01000000`	VALID IP
`255.255.255.224`	`11111111.11111111.11111111.11100000`	VALID MASK

task3

name	value	binary
ip	155.79.209.96	10011011.01001111.11010001.01100000
mask	255.255.255.224	11111111.11111111.11111111.11100000
net part	155.79.209.96	10011011.01001111.11010001.01100000
host part	0.0.0.0	00000000.00000000.00000000.00000000
count of nets	30	2^5-2

task4

name	value
ip/mask	176.141.64.58/26
ip	176.141.64.0
mask	255.255.255.192
net size	62
min addr	176.141.64.1
max addr	176.141.64.62
broadcast	176.141.64.63

name	value
ip/mask	145.129.153.215/21
ip	145.129.152.0
mask	255.255.248.0
net size	2046
min addr	145.129.152.1
max addr	145.129.159.254
broadcast	145.129.159.255