

Uladzislau Bohdan

FAMCS 3/3

Lab 3

Task 1

32.123.211.78
00100000.01111011.11010011.01001110

Task 2

255.255.1.0	11111111.11111111.00000001.00000000	INVALID IP. INVALID MASK.
128.61.0.1	10000000.00111101.00000000.00000001	VALID IP. INVALID MASK.
192.201.255.254	11000000.11001001.11111111.11111110	VALID IP. INVALID MASK.
214.47.8.160	11010110.00101111.00001000.10100000	VALID IP. INVALID MASK.
223.256.72.120	NOT AN ADDRESS NOT AN ADDRESS	
255.255.64.0	11111111.11111111.01000000.00000000	INVALID IP. INVALID MASK.
218.212.34.255	11011010.11010100.00100010.11111111	VALID IP. INVALID MASK.
255.253.254.0	11111111.11111101.11111110.00000000	INVALID IP. INVALID MASK.
111.111.111.111	01101111.01101111.01101111.01101111	VALID IP. INVALID MASK.
203.181.133.64	11001011.10110101.10000101.01000000	VALID IP. INVALID MASK.
255.0.0.0	11111111.00000000.00000000.00000000	INVALID IP. VALID MASK.

Task 3

IP: 171.81.144.120 10101011.01010001.10010000.01111000
mask: 255.255.255.0 11111111.11111111.11111111.00000000
net address: 171.81.144.0 10101011.01010001.10010000.00000000
host part: 0.0.0.120 00000000.00000000.00000000.01111000
potential number of nodes: 254

Task4 - example1

IP:	196.105.157.223	11000100.01101001.10011101.11011111
Mask:	255.255.254.0	11111111.11111111.11111110.00000000
Net address:	196.105.156.0	11000100.01101001.10011100.00000000
Number of nodes:	510	
First IP in network:	196.105.156.1	
Last IP in network:	196.105.157.254	
Broadcasting address:	196.105.157.255	

Task4 - example2

IP:	185.206.219.63	10111001.11001110.11011011.00111111
Mask:	255.255.255.248	11111111.11111111.11111111.11111000
Net address:	185.206.219.56	10111001.11001110.11011011.00111000
Number of nodes:	6	
First IP in network:	185.206.219.57	
Last IP in network:	185.206.219.62	
Broadcasting address:	185.206.219.63	