

Zadanie 1.

Host A	Host 192.168.0.5
DHCPDISCOVER	DHCPOFFER
DHCPREQUEST IP	DHCPACKNOWLEDGE
ARP REQUEST 192.168.0.5	ARP SEND IP+MAC
SEND SYN (SYN-SENT)	RECEIVE SYN (SYN-RECEIVED) + SEND SYN+ACK
RECEIVE SYN+ACK (ESTABLISHED) + SEND ACK	RECEIVE ACK (ESTABLISHED)
SEND PACKAGE 1	RECEIVE + SEND ACK 1
SEND PACKAGE 2	RECEIVE + SEND ACK 2
SEND PACKAGE 3	RECEIVE + SEND ACK 3
...	...
SEND PACKAGE 12	RECEIVE + SEND ACK 12
SEND FIN	RECEIVE FIN + SEND ACK

Host A wyśle **18** i odbierze **17** pakietów.

Zadanie 2.

a) /15

11111111.11111110.00000000.00000000
255.254.0.0

b) /22

11111111.11111111.11111100.00000000
255.255.252.0.0

c) /9

11111111.10000000.00000000.00000000
255.128.0.0

Zadanie 3.

a) 255.248.0.0

11111111.11111000.00000000.00000000
 $2^3 * 2^8 * 2^8 - 2 = 2^{19} - 2 = 524288 - 2 = \mathbf{524286}$ możliwości

b) 255.255.252.0

11111111.11111111.11111100.00000000
 $2^2 * 2^8 - 2 = 2^{10} - 2 = 1024 - 2 = \mathbf{1022}$ możliwości

c) 255.255.255.254

11111111.11111111.11111111.11111110
 $2 - 2 = \mathbf{0}$ możliwości