3 - Зертханалық жұмыс

Тақырыбы: Ішкіжелі маскасының (Subnet Mask) айнымалылар ұзындығын

(Variable Length) есептеу

Тапсырмалар:

Төмендегі тапсырманың нұсқалаларында IP адрес және Prefix берілген, табу

керек Subnet mask, Wildcard mask, Network (желі) адрес, Broadcast адрес, Hosts

ID (хост адрестің саны).

1 вариант

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Адрес   : | 37.99.33.149 | | 00100101.01100011.00100001.10010 101 | |
| Маска   : | 255.255.255.248 (29) | | 11111111.11111111.11111111.11111 000 | |
| Wildcard: | 0.0.0.7 | | 00000000.00000000.00000000.00000 111 | |
|  | | | | |
| Сеть       : | 37.99.33.144/29 | | 00100101.01100011.00100001.10010 000 | |
| Broadcast: | 37.99.33.151 | | 00100101.01100011.00100001.10010 111 | |
| Хостов в сети: | | 6 | |

**2 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 194.187.245.10 | 11000010.10111011.11110101.00001 010 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 194.187.245.8/29 | 11000010.10111011.11110101.00001 000 |
| Broadcast: | 194.187.245.15 | 11000010.10111011.11110101.00001 111 |

|  |  |
| --- | --- |
| Хостов в сети: | 6 |

**3 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 78.46.101.98 | 01001110.00101110.01100101.01100 010 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 78.46.101.96/29 | 01001110.00101110.01100101.01100 000 |
| Broadcast: | 78.46.101.103 | 01001110.00101110.01100101.01100 111 |
| Хостов в сети: | 6 |  |

**4 вариант**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Адрес   : | 212.154.158.15 | | 11010100.10011010.10011110.00001 111 | |
| Маска   : | 255.255.255.248 (29) | | 11111111.11111111.11111111.11111 000 | |
| Wildcard: | 0.0.0.7 | | 00000000.00000000.00000000.00000 111 | |
|  | | | | |
| Сеть       : | 212.154.158.8/29 | | 11010100.10011010.10011110.00001 000 | |
| Broadcast: | 212.154.158.15 | | 11010100.10011010.10011110.00001 111 | |
| Хостов в сети: | | 6 | |

**5 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 185.143.128.16 | 10111001.10001111.10000000.00010 000 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 185.143.128.16/29 | 10111001.10001111.10000000.00010 000 |
| Broadcast: | 185.143.128.23 | 10111001.10001111.10000000.00010 111 |
| Хостов в сети: | 6 |  |

**6 вариант**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Адрес   : | 205.204.101.42 | | 11001101.11001100.01100101.00101 010 | |
| Маска   : | 255.255.255.248 (29) | | 11111111.11111111.11111111.11111 000 | |
| Wildcard: | 0.0.0.7 | | 00000000.00000000.00000000.00000 111 | |
|  | | | | |
| Сеть       : | 205.204.101.40/29 | | 11001101.11001100.01100101.00101 000 | |
| Broadcast: | 205.204.101.47 | | 11001101.11001100.01100101.00101 111 | |
| Хостов в сети: | | 6 | |

**7 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 178.88.114.118 | 10110010.01011000.01110010.01110 110 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 178.88.114.112/29 | 10110010.01011000.01110010.01110 000 |
| Broadcast: | 178.88.114.119 | 10110010.01011000.01110010.01110 111 |
| Хостов в сети: | 6 |  |

**8 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 211.45.27.231 | 11010011.00101101.00011011.11100 111 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 211.45.27.224/29 | 11010011.00101101.00011011.11100 000 |
| Broadcast: | 211.45.27.231 | 11010011.00101101.00011011.11100 111 |
| Хостов в сети: | 6 |  |

**9 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 91.236.51.100 | 01011011.11101100.00110011.01100 100 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 91.236.51.96/29 | 01011011.11101100.00110011.01100 000 |
| Broadcast: | 91.236.51.103 | 01011011.11101100.00110011.01100 111 |
| Хостов в сети: | 6 |  |

**10 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 95.56.234.13 | 01011111.00111000.11101010.00001 101 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 95.56.234.8/29 | 01011111.00111000.11101010.00001 000 |
| Broadcast: | 95.56.234.15 | 01011111.00111000.11101010.00001 111 |
| Хостов в сети: | 6 |  |

**11 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 176.62.77.212 | 10110000.00111110.01001101.11010 100 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 176.62.77.208/29 | 10110000.00111110.01001101.11010 000 |
| Broadcast: | 176.62.77.215 | 10110000.00111110.01001101.11010 111 |
| Хостов в сети: | 6 |  |

**12 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 178.176.28.164 | 10110010.10110000.00011100.10100 100 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 178.176.28.160/29 | 10110010.10110000.00011100.10100 000 |
| Broadcast: | 178.176.28.167 | 10110010.10110000.00011100.10100 111 |
| Хостов в сети: | 6 |  |
| **13 вариант** |
| Адрес   : | 91.205.239.120 | 01011011.11001101.11101111.01111 000 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 91.205.239.120/29 | 01011011.11001101.11101111.01111 000 |
| Broadcast: | 91.205.239.127 | 01011011.11001101.11101111.01111 111 |
| Хостов в сети: | 6 |  |

**14 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 85.26.146.169 | 01010101.00011010.10010010.10101 001 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 85.26.146.168/29 | 01010101.00011010.10010010.10101 000 |
| Broadcast: | 85.26.146.175 | 01010101.00011010.10010010.10101 111 |
| Хостов в сети: | 6 |  |

**15 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 212.46.220.214 | 11010100.00101110.11011100.11010 110 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 212.46.220.208/29 | 11010100.00101110.11011100.11010 000 |
| Broadcast: | 212.46.220.215 | 11010100.00101110.11011100.11010 111 |
| Хостов в сети: | 6 |  |

**16 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 46.73.33.253 | 00101110.01001001.00100001.11111 101 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 46.73.33.248/29 | 00101110.01001001.00100001.11111 000 |
| Broadcast: | 46.73.33.255 | 00101110.01001001.00100001.11111 111 |
| Хостов в сети: | 6 |  |

**17 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 89.208.96.86 | 01011001.11010000.01100000.01010 110 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 89.208.96.80/29 | 01011001.11010000.01100000.01010 000 |
| Broadcast: | 89.208.96.87 | 01011001.11010000.01100000.01010 111 |
| Хостов в сети: | 6 |  |

**18 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 195.208.172.70 | 11000011.11010000.10101100.01000 110 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 195.208.172.64/29 | 11000011.11010000.10101100.01000 000 |
| Broadcast: | 195.208.172.71 | 11000011.11010000.10101100.01000 111 |
| Хостов в сети: | 6 |  |

**19 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 217.113.122.142 | 11011001.01110001.01111010.10001 110 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 217.113.122.136/29 | 11011001.01110001.01111010.10001 000 |
| Broadcast: | 217.113.122.143 | 11011001.01110001.01111010.10001 111 |
| Хостов в сети: | 6 |  |

**20 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 212.116.103.82 | 11010100.01110100.01100111.01010 010 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 212.116.103.80/29 | 11010100.01110100.01100111.01010 000 |
| Broadcast: | 212.116.103.87 | 11010100.01110100.01100111.01010 111 |
| Хостов в сети: | 6 |  |

**21 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 109.233.209.55 | 01101101.11101001.11010001.00110 111 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 109.233.209.48/29 | 01101101.11101001.11010001.00110 000 |
| Broadcast: | 109.233.209.55 | 01101101.11101001.11010001.00110 111 |
| Хостов в сети: | 6 |  |

**22 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 188.232.214.120 | 10111100.11101000.11010110.01111 000 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 188.232.214.120/29 | 10111100.11101000.11010110.01111 000 |
| Broadcast: | 188.232.214.127 | 10111100.11101000.11010110.01111 111 |
| Хостов в сети: | 6 |  |

**23 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 178.204.13.172 | 10110010.11001100.00001101.10101 100 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 178.204.13.168/29 | 10110010.11001100.00001101.10101 000 |
| Broadcast: | 178.204.13.175 | 10110010.11001100.00001101.10101 111 |
| Хостов в сети: | 6 |  |

**24 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 85.21.240.153 | 01010101.00010101.11110000.10011 001 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 85.21.240.152/29 | 01010101.00010101.11110000.10011 000 |
| Broadcast: | 85.21.240.159 | 01010101.00010101.11110000.10011 111 |
| Хостов в сети: | 6 |  |

**25 вариант**

|  |  |  |
| --- | --- | --- |
| Адрес   : | 91.203.240.210 | 01011011.11001011.11110000.11010 010 |
| Маска   : | 255.255.255.248 (29) | 11111111.11111111.11111111.11111 000 |
| Wildcard: | 0.0.0.7 | 00000000.00000000.00000000.00000 111 |
|  | | |
| Сеть       : | 91.203.240.208/29 | 01011011.11001011.11110000.11010 000 |
| Broadcast: | 91.203.240.215 | 01011011.11001011.11110000.11010 111 |
| Хостов в сети: | 6 |  |