**Classify the IPv4 address to its type (network, host, multicast, or broadcast address).**

|  |  |  |
| --- | --- | --- |
| **IP** | **Subnet Mask** | **Type** |
| **10.1.1.1**  |  **255.255.255.252**  | **host** |
| **192.168.33.63**  | **255.255.255.192**  | Broadcast |
| **10.255.0.0**  |  **255.0.0.0**  | Network |
| **172.16.128.48**  | **255.255.255.240**  | Network |
| **209.165.202.159**  |  **255.255.255.224**  | Broadcast |

**Complete the table:**

|  |  |  |  |
| --- | --- | --- | --- |
| Address /Prefix | Network/Host N,n = Network H,h = Host | Subnet Mask | Network Address |
| 192.168.10.10/24 | N.N.N.H | 255.255.255.0 | 192.168.10.0 |
| 10.101.99.17/23  | N.N.nnnnnnnh.H | 255.255.254.0 | 10.101.98.0 |
| 172.16.117.77/20 | N.N.nnnnhhhh.H | 255.255.240.0 | 172.16.112.0 |
| 10.1.8.200/26 | N.N.N.nnhhhhhh.H | 255.255.255.192 | 10.1.8.192 |