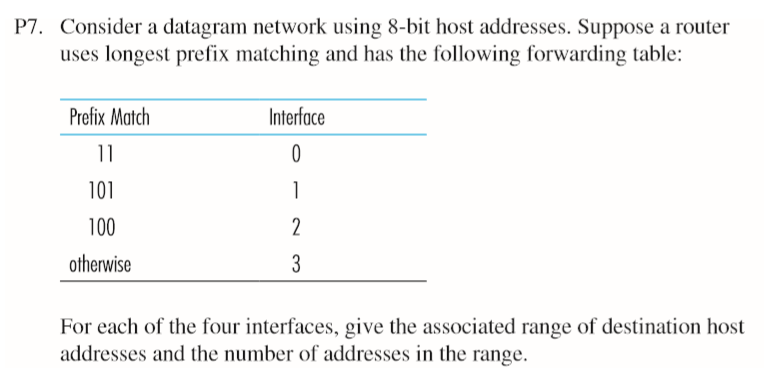
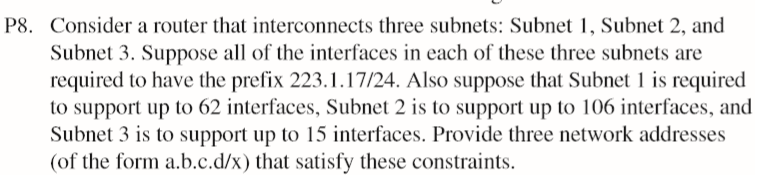


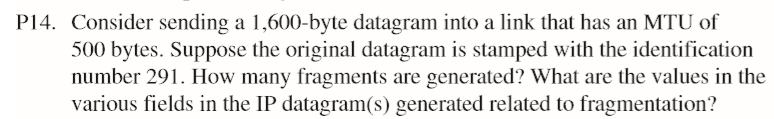
1. Impossible.
2. Possible.
3. Impossible.



|  |  |  |
| --- | --- | --- |
| Interface | Range | Number |
| 0 | 1100 0000 – 1111 1111 | 2^6 |
| 1 | 1010 0000 – 1011 1111 | 2^5 |
| 2 | 1000 0000 – 1001 1111 | 2^5 |
| 3 | 0000 0000 – 1111 1111  Except the addresses above | 2^8-2^6-2^5-2^5 |



|  |  |
| --- | --- |
| Subnet 1 | 223.1.17.192/26 (193 to 254 = 62) |
| Subnet 2 | 223.1.17.0/25 (1 to 127 = 128) |
| Subnet 3 | 223.1.17.128/28 (129 to 143 = 15) |



1600/500=3.2, so 4 fragments are generated.

Each IP datagram has the same id number 422 and the offsets of the four datagrams are 0, 85, 170, and 255, respectively