Variable Length Subnetting Mask (VLSM)

Requirements:	**Assigned IP:** 192.168.10.0/24
SN1: 60 Hosts SN2: 28 Hosts SN3: 12 Hosts SN4: 12 Hosts SN5: 2 Hosts SN6: 2 Hosts SN7: 2 Hosts	192.168.10.**00**00 0000 /26 (2^6 = 64 – 2 = max. 62 Hosts) -> 192.168.10.0/26 **=> SN1 (60 Hosts)** 192.168.10.**01**00 0000 /26 (2^6 = 64 – 2 = max. 62 Hosts) -> 192.168.10.64/26 -> 192.168.10.**01**0**0** 0000 /27 (2^5 = 32 – 2 = max. 30 Hosts) -> 192.168.10.64/27 **=> SN2 (28 Hosts)** -> 192.168.10.**01**1**0** 0000 /27 (2^5 = 32 – 2 = max. 30 Hosts) -> 192.168.10.96/27 -> 192.168.10. **011**0 0000 /28 (2^4 = 16 – 2 = max. 14 Hosts -> 192.168.10.96/28 **=> SN3 (12 Hosts)** -> 192.168.10. **011**1 0000 /27 (2^4 = 16 – 2 = max. 14 Hosts -> 192.168.10.112/28 **=> SN4 (12 Hosts)** 192.168.10.**10**00 0000 /26 (2^6 = 64 – 2 = max. 62 Hosts) -> 192.168.10.128/27 -> 192.168.10.**10**00 00**00** /30 (2^2 = 4 – 2 = max. 2 Hosts) -> 192.168.10.128/30 **=> SN5 (2 Hosts)** -> 192.168.10.**10**00 01**00** /30 (2^2 = 4 – 2 = max. 2 Hosts) -> 192.168.10.132/30 **=> SN6 (2 Hosts)** -> 192.168.10.**10**00 10**00** /30 (2^2 = 4 – 2 = max. 2 Hosts) -> 192.168.10.136/30 **=> SN7 (2 Hosts)**