Q6) You are given three IP addresses: 10.1.1.1, 172.16.5.10, and 192.168.1.5.

Task: Identify the class of each IP address (Class A, B, or C). What is the default subnet mask for each class?

Provide the range of IP addresses for each class

IP Address	Class	Default Subnet Mask	IP Range for the Class
10.1.1.1	Class A	255.0.0.0 (/8)	10.0.0.0 – 10.255.255.255
172.16.5.10	Class B	255.255.0.0 (/16)	172.16.0.0 – 172.31.255.255
192.168.1.5	Class C	255.255.255.0 (/24)	192.168.0.0 – 192.168.255.255

- **Class A (10.1.1.1):** First octet (10) falls within **1–126**, making it **Class A** with a **/8 default subnet mask**.
- **Class B (172.16.5.10):** First octet (172) is in the **128–191** range, so it is **Class B** with a **/16 default subnet mask**.
- **Class C (192.168.1.5):** First octet (192) falls within **192–223**, meaning it's **Class C** with a **/24 default subnet mask**.