6. 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.

* **10.1.1.1** belongs to **Class A**, which has a default subnet mask of **255.0.0.0**. The private IP range for Class A is **10.0.0.0 to 10.255.255.255**.
* **172.16.5.10** falls under **Class B**, with a default subnet mask of **255.255.0.0**. The private IP range for Class B extends from **172.16.0.0 to 172.31.255.255**.
* **192.168.1.5** is a **Class C** address, and its default subnet mask is **255.255.255.0**. The private IP range for Class C spans from **192.168.0.0 to 192.168.255.255**.