Name: **Quiz-4 SET A** **ID:** **Section:**

The number of hosts given in the topology only includes PCs, printers, and servers.

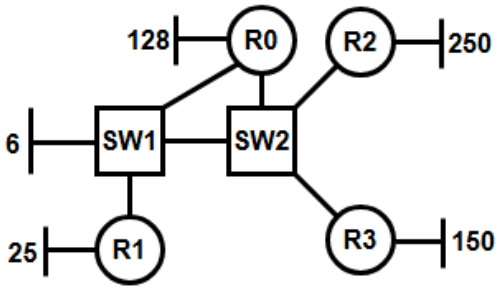
Sheldon and Leonard are both on **R1-LAN**. Their IP addresses are **192.128.0.2)** and **192.128.255.253 ,** respectively.

I. Penny(different network) decides to send an email to all devices on LAN1. **What is the destination address?**

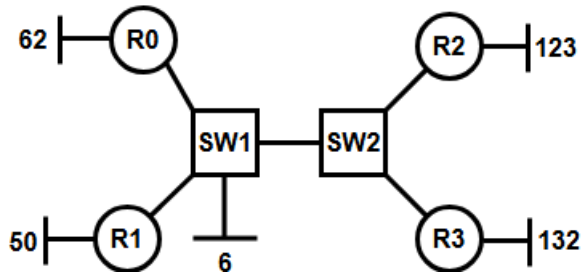
II. Sheldon now plans to expand his office after winning the Nobel Peace Prize and hence designs the topology given above. **Apply VLSM** using the network address **169.0.0.0/17** to efficiently create the subnet addresses for the expanded topology.

III. Leonard says a total of **M** addresses are wasted after applying VLSM. Sheldon replies that **N** addresses would have been wasted if **FLSM** were used. Is **N-M= N/M×(N-2M) correct?**

[You do not need to show FLSM steps]



Name: **Quiz-4 SETB** **ID:** **Section:**



The number of hosts given in the topology only includes PCs, printers, and servers.

Sheldon and Leonard are both on **R1-LAN**. Their IP addresses are **192.0.50.69** and **192.127.255.253 ,** respectively.

IV. Penny(different network) decides to send an email to all devices on LAN1. **What is the destination address?**

V. Sheldon now plans to expand his office after winning the Nobel Peace Prize and hence designs the topology given above. Apply **VLSM** using the network address **69.0.0.0/15** to efficiently create the subnet addresses for the expanded topology.

VI. Leonard says a total of **M** addresses are wasted after applying VLSM. Sheldon replies that **N** addresses would have been wasted if **FLSM** were used. Is **N-M= N/M×(N-2M)** correct?
[You do not need to show FLSM steps]