

**TODO 1: Subnetting, Router Configuration and Static Routing**

**Question 1:** Given the following topology, divide the given class C address 192.168.1.0/24 range on the networks **A, B, C, D, E** using minimum number of IPs.

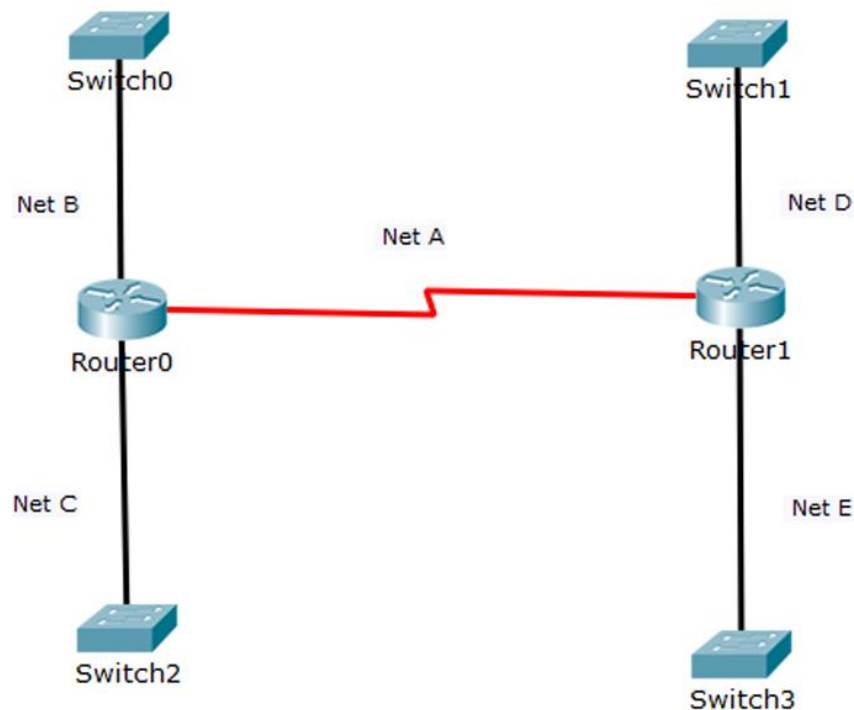
**Net A = 2**

**Net E = 5**

**B, C and D** represent the last six digits of your university ID.

For example: if your university ID 1170302

1170302			
1	17	03	02
Not Use	B	C	D
	Net B Host	Net C Host	Net D Host

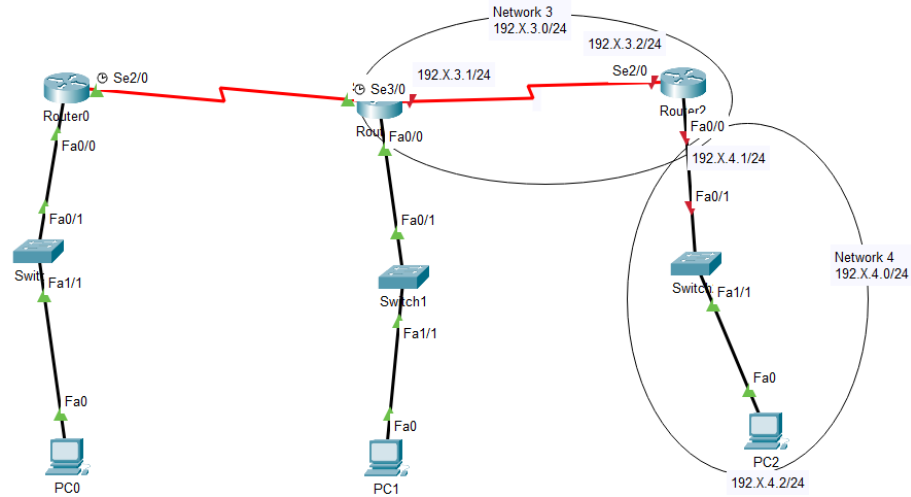


**Do the following:**

1. Divide the given class C address 192.168.1.0/24 range on the networks A, B, C, D, E using minimum number of IPs (You must show all steps of your work).
2. Complete the following table:

Network Symbol	Network IP	Broadcast IP	First Allowed IP	Last Allowed IP	Number of Hosts
A					
B					
C					
D					
E					

**Question 2:** Given the following topology, Where X in the given IP addresses ranges depends on your university ID (Example: 1161361) X=61 according to this ID.



Do the following:

- 1- Add a new router, switch, and PC to the topology of **EXP#2** that you have done.
- 2- Complete the static routing, check the connectivity of this new network!
  - a. Add screenshots of the steps you took with the time and date shown.
  - b. Show the routing table on the new router with the time and date shown.

**What to submit:**

- Question 1:
  - YourFirstName\_YourIDNumber\_SectionNumber.**pdf** file  
(PDF file showing all the steps of your work)
- Question 2:
  - YourFirstName\_YourIDNumber\_SectionNumber.**pdf** file ([Screenshots PDF File](#))
  - YourFirstName\_YourIDNumber\_SectionNumber.**pkt** file ([Packet Tracer File](#))

**Explication Video:**

- [https://youtu.be/fHg\\_HIkEsk4](https://youtu.be/fHg_HIkEsk4)

**Notes:**

- Mark 0 will be given to those who don't Include the University ID in their solution.

**Deadline:**

- Thursday, 26-9-2024, 11:59 PM.

**Where to submit:**

- Submit to ToDo No. 1 through ITC.

**Good Luck 😊**