Objectives:

1.  Download the packet tracer file: [SBA 7.0.10.10.pkt](https://usc.instructure.com/courses/15972/files/3156938?wrap=1)

[Download SBA 7.0.10.10.pkt](https://usc.instructure.com/courses/15972/files/3156938/download?download_frd=1)

2.  Compute for the addressing based on the given topology, Use 156.120.0.0 network

3.  Create a table using the 6 steps approach in subnetting, and identify the assignment of each network in the given XYZ Company Inc. branch and offices.

4.  Configure the given topology and apply RIPv2

5.  Verify the connectivity, all computers can communicate.

1. Class of IP: 156.120.0.0- Class A

11111111.11111111.11111000.00000000

2. Requirement: 26 subnets

3. Borrowed bits:

           2^5 - 2 => 26

 32 - 2 = 30 True

4New subnet mask: 255.255.248.0

                             11111111.1111111.11111000.00000000

                  5 bit = 128+64+32+16+8= 248 the third octet.

**From the third octet there are 3 remaining bits**

5. Range between network: 2^3= 8

 256-Subnet Mask-------256-248= 8

**Range----8**

6. Plot on the excel.