Given IP = 10.0.0.0.0/24This is a Class A IP address. Default Subnet of Class A = 255. D.D.D 1111111, 00000000, 00000000, 00000000 fixed available. 24-8 = 16 bits can be borrowed.Therefore, after borrowing, we will have a Subnet mask of 255. 255.255.0 Since we need of subnets, we need to besseww entra 2 bits :- New Subnet mask - 255.255.255. (11000000) = \$55.255.255.192

Subnet Bits
1 00
2 01

3 10

4 11

10 0 0 0 00 000 (6)

10-0.0-01 11111 (127)

10.0.0-10000000 (128)

10.0.0-.10 111111 (191)

10.0.0 - 11/000000 (192)

10.000-11 11111 (255)

Subnet Available Range

1 10.0.0.2 to 10.0.0.62

2 10.0.0.126

1 0.0.0.130 to 10.0.0.190

1 0.0.0.194 to 10.0.0.254