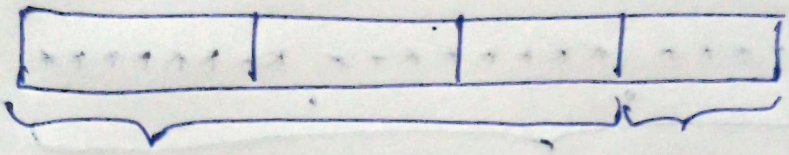
Given IP Address : 10.0.0.0/24

Need : 4 subnets

/24 : Class C



No. of bits required to represent network with subnet : 2 $(2^2 = 4)$

Rest bits : $2^6 = 64$

Subnet	Network address	Subnet Range	Broadcast address
1	10.0.0.0/26	10.0.0.1 - 10.00.62	10.0.0.63
2	10.0.0.64/26	10.0.0.65 - 10.0.0.126	10.0.0.127
3	10.0.0.128/26	10.0.0.129 - 10.0.0.190	10.0.0.191
4	10.0.0.192/26	10.0.0.193 - 10.0.0.254	10.0.0.255