	Master Bit	Class : A							
	No of Host	subnet bits	host bits	Subnet mask	Subnet ID	Firs host	Last Host	Boadcast	
	5000000	0	23	/9	10.0.0.0	10.0.0.1	10.127.255.254	10.127.255.255	
	202000	100000	18	/14	10.128.0.0	10.128.0.1	10.131.255.254	10.131.255.255	
	200000	100001	18	/14	10.132.0.0	10.132.0.1	10.135.255.254	10.135.255.255	
	10000	1000100000	14	/18	10.136.0.0	10.136.0.1	10.137.255.254	10.137.255.255	
	5000	100010100	13	/19	10.138.0.0	10.138.0.1	10.138.127.254	10.138.127.255	
40 1000101.0100000.010 6 2 26 10.188.160.128 10.188.160.129 10.188.160.129 10.188.160.129 10.188.160.129 10.188.160.129 10.188.160.129 10.188.160.129 10.188.160.129 10.188.160.129 10.188.160.129 10.188.160.129 10.188.160.29 10.188.160.29 10.188.160.29 10.188.160.29 10.188.160.29 10.188.160.29 10.188.160.29 10.188.160.29 10.188.160.29 10.188.160.29 1	2000	10001010.100	11	/21	10.138.128.0	10.138.128.1	10.138.159.254	10.138.159.255	
	80	10001010.10100000.0	7	/25	10.138.160.0	10.138.160.1	10.138.160.126	10.138.160.127	
	40	10001010.10100000.10	6	/26	10.138.160.128	10.138.160.129	10.138.160.190	10.138.160.191	
Actor 10001010.101000011111001 2 Ap 10 138.161.228 10.138.161.229 Image: Class : B Master Bit Class : B No of Rost subnet bits host bits Subnet mank Subnet ID Firs host Last Rost Boadcast 1024 00000 11 /21 17216.00 17216.01 17216.7254 17216.7255 905 0000100 9 /23 17216.10 17216.10 17216.1254 17216.1255 250 0000100 8 /24 17216.120 17216.121 17216.1254 17216.1255 25 00001010000 3 /27 17216.13.31 17216.13.33 17216.13.31 17216.13.33 17216.13.31 17216.13.34 17216.13.31 17216.13.34 17216.13.35 17216.13.39 17216.13.39 17216.13.39 17216.13.39 17216.13.39 17216.13.39 17216.13.59 17216.13.59 17216.13.59 17216.13.59 17216.13.59 17216.13.59 17216.13.59 17216.13.59 17216.13.59 17216.13.59 17216.13.59 17216.13.5	20	10001010.10100000.110	5	/27	10.138.160.192	10.138.160.193	10.138.160.222	10.138.160.223	
Master Bit Class: B No of Host subnet bits host bits Subnet mask Subnet ID Fire host Last Host Boadcast 1024 00000 11 721 172160.0 172160.1 17216.254 17216.255 1050 0000100 9 723 17216.8.0 17216.8.1 17216.9254 17216.9255 1060 0000101 9 723 1721610.0 1721610.1 17216.1254 17216.1255 1070 0000100 8 724 1721612.0 1721612.1 17216.1254 1721612.255 1080 0001100 8 724 1721612.0 1721612.1 17216.1254 1721612.255 1090 100000 9 727 1721613.0 1721612.1 1721612.254 1721613.31 10 0001101001 4 788 1721613.32 1721613.1 1721613.30 1721613.31 10 000011010010 2 70 70 1721613.32 1721613.33 1721613.50 1721613.51 2 0000110100110 2 70 70 1721613.52 1721613.53 1721613.55 2 0000110100110 2 70 70 1721613.52 1721613.53 1721613.58 1721613.59 2 00001101001110 2 70 70 1721613.50 1721613.51 1721613.58 1721613.59 2 00001101001111 2 70 70 1721613.60 1721613.61 1721613.58 1721613.19 2 00001101001111 2 70 70 1721613.0 1721613.61 1721613.118 1721613.119 2 00001101001111 2 70 70 1721613.0 1721613.61 1721613.118 1721613.119 2 00001101001111 2 70 70 1721613.00 1721613.61 1721613.118 1721613.119 2 00001101001111 2 70 70 1721613.00 1721613.61 1721613.118 1721613.119 2 00001101001111 2 70 70 1721613.00 1721613.61 1721613.119 1721613.118 1721613.119 2 00001101001111 2 70 70 1721613.00 1721613.61 1721613.119 1721613.118 1721613.119 2 00001101001111 2 70 70 1721613.00 1721613.61 1721613.119 1721613.118 1721613.119 2 00001101001111 2 70 70 1721613.00 1721613.01 1721613.119 1721613.118 1721613.119 2 0000110100111 2 70 1721613.00 1721613.00 1721613.111 1721613.118 1721613.119 3 00 1721613.00 1721613.30 17	2	10001010.10100000.111000	2	/30	10.138.160.224	10.138.160.225	10.138.161.226	10.138.161.227	
No of Rost Subnet bits Nost bits Subnet mank Subnet ID Fire host Last Rost Boadcast	2-Extra	10001010.10100001.111001	2	/30	10.138.161.228	10.138.161.229			
1024 00000	Master Bit Class : B								
	No of Host	subnet bits	host bits	Subnet mask	Subnet ID	Firs host	Last Host	Boadcast	
	1024	00000	11	/21	172.16.0.0	172.16.0.1	172.16.7.254	172.16.7.255	
	505	0000100	9	/23	172.16.8.0	172.16.8.1	172.16.9.254	172.16.9.255	
172.16.13.00 172.16.13.30 172.16.13.30 172.16.13.31 172.16.13.30 172.16.13.31 172.16.13.30 172.16.13.31 172.16.13.31 172.16.13.31 172.16.13.32 172.16.13.33 172.16.13.46 172.16.13.47 172.16.13.47 172.16.13.46 172.16.13.47 172.16.13.50 172.16.13.51 172.16.13.50 172.16.13.51 172.16.13.55 172.	400	0000101	9	/23	172.16.10.0	172.16.10.1	172.16.11.254	172.16.11.255	
172.16.13.32 172.16.13.33 172.16.13.46 172.16.13.47	250	00001100	8	/24	172.16.12.0	172.16.12.1	172.16.12.254	172.16.12.255	
2 00001101001100 2 //30 172.16.13.48 172.16.13.49 172.16.13.50 172.16.13.51 2 00001101.001101 2 //30 172.16.13.52 172.16.13.53 172.16.13.54 172.16.13.55 2 00001101.001110 2 //30 172.16.13.55 172.16.13.57 172.16.13.58 172.16.13.59 2 00001101.0011111 2 //30 172.16.13.60 172.16.13.61 172.16.13.18 172.16.13.19 2 Extra 00001101.01110 2 //30 172.16.13.10 172.16.13.11 172.16.13.118 172.16.13.119 Master Bit- Class : C No of Host subnet bits host bits Subnet mask Subnet ID Fire host Last Host Boadcast 60 0 0 6 //26 192.168.0.0 192.168.0.1 192.168.0.62 192.168.0.63 25 010 5 //27 192.168.0.64 192.168.0.65 192.168.0.94 192.168.0.95 18 011 5 //27 192.168.0.96 192.168.0.97 192.168.0.12 192.168.0.12 10 10 4 //28 192.168.0.12 192.168.0.12 192.168.0.14 192.168.0.14 192.168.0.15 192.168.0.16 192.168.0.16 192.168.0.17 192.168.0.16 192.168.0.17 192.168.0.16 192.168.0.17 192.168.0.17 192.168.0.16 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.17 192.168.0.18 192.168.0.18 192.168.0.18 192.168.0.18 192.168.0.18 192.168.0.18 192.168.0.18 192.168.0.18 192.168.0.18 192.168.0.18 192.168.0.19 192	25	00001101000	5	/27	172.16.13.0	172.16.13.1	172.16.13.30	172.16.13.31	
2 30 172.16.13.52 172.16.13.53 172.16.13.54 172.16.13.55 2 00001101.001110 2 30 172.16.13.56 172.16.13.57 172.16.13.58 172.16.13.59 2 00001101.0011110 2 30 172.16.13.60 172.16.13.61 172.16.13.118 172.16.13.119 2 2 30 172.16.13.120 172.16.13.121	10	000011010010	4	/28	172.16.13.32	172.16.13.33	172.16.13.46	172.16.13.47	
2 00001101.001110 2 /30 172.16.13.56 172.16.13.57 172.16.13.58 172.16.13.59 2 00001101.0011111 2 /30 172.16.13.60 172.16.13.61 172.16.13.118 172.16.13.119 2-Extra 00001101.011110 2 /30 172.16.13.120 172.16.13.121 Master Bit- Class: C No of Host subnet bits host bits Subnet mask Subnet ID Firs host Last Host Boadcast 60 0 0 6 /26 192.168.0.0 192.168.0.1 192.168.0.62 192.168.0.63 25 010 5 /27 192.168.0.64 192.168.0.65 192.168.0.94 192.168.0.95 18 011 5 /27 192.168.0.64 192.168.0.97 192.168.0.126 192.168.0.127 14 1000 4 /28 192.168.0.128 192.168.0.129 192.168.0.142 192.168.0.143 12 1001 4 /28 192.168.0.144 192.168.0.145 192.168.0.158 192.168.0.159 8 1010 4 /28 192.168.0.161 192.168.0.174 192.168.0.175 5 10110 3 /29 192.168.0.176 192.168.0.177 192.168.0.182 192.168.0.183 2 10111 2 /30 192.168.0.184 192.168.0.185 192.168.0.186 192.168.0.187 2 10111 2 /30 192.168.0.188 192.168.0.189 192.168.0.190 192.168.0.191	2	00001101001100	2	/30	172.16.13.48	172.16.13.49	172.16.13.50	172.16.13.51	
2 00001101.0011111 2 /30 172.16.13.60 172.16.13.61 172.16.13.118 172.16.13.119 2	2	00001101.001101	2	/30	172.16.13.52	172.16.13.53	172.16.13.54	172.16.13.55	
2-Extra 00001101.011110 2 /30 172.16.13.120 172.16.13.121	2	00001101.001110	2	/30	172.16.13.56	172.16.13.57	172.16.13.58	172.16.13.59	
Master Bit- Class : C No of Host subnet bits host bits Subnet mask Subnet ID Firs host Last Host Boadcast 60 00 6 /26 192.168.0.0 192.168.0.1 192.168.0.62 192.168.0.63 25 010 5 /27 192.168.0.64 192.168.0.65 192.168.0.94 192.168.0.95 18 011 5 /27 192.168.0.96 192.168.0.97 192.168.0.126 192.168.0.127 14 1000 4 /28 192.168.0.128 192.168.0.129 192.168.0.142 192.168.0.143 12 1001 4 /28 192.168.0.144 192.168.0.145 192.168.0.158 192.168.0.159 8 1010 4 /28 192.168.0.160 192.168.0.161 192.168.0.174 192.168.0.175 5 10110 3 /29 192.168.0.176 192.168.0.185 192.168.0.182 192.168.0.187 2 101110 2 /30 192.168.0.184 192.168.0.189 192.168.0.190 <	2	00001101.0011111	2	/30	172.16.13.60	172.16.13.61	172.16.13.118	172.16.13.119	
No of Host subnet bits host bits Subnet mask Subnet ID Firs host Last Host Boadcast 60 00 6 /26 192.168.0.0 192.168.0.1 192.168.0.62 192.168.0.63 25 010 5 /27 192.168.0.64 192.168.0.65 192.168.0.94 192.168.0.95 18 011 5 /27 192.168.0.96 192.168.0.97 192.168.0.126 192.168.0.127 14 1000 4 /28 192.168.0.128 192.168.0.129 192.168.0.142 192.168.0.143 12 1001 4 /28 192.168.0.144 192.168.0.145 192.168.0.158 192.168.0.159 8 1010 4 /28 192.168.0.160 192.168.0.161 192.168.0.174 192.168.0.175 5 10110 3 /29 192.168.0.176 192.168.0.185 192.168.0.186 192.168.0.187 2 101110 2 /30 192.168.0.188 192.168.0.189 192.168.0.190 192.168.0.191	2-Extra	00001101.011110	2	/30	172.16.13.120	172.16.13.121			
60 0 0 6 /26 192.168.0.0 192.168.0.1 192.168.0.62 192.168.0.63 25 010 5 /27 192.168.0.64 192.168.0.65 192.168.0.94 192.168.0.95 18 011 5 /27 192.168.0.96 192.168.0.97 192.168.0.126 192.168.0.127 14 1000 4 /28 192.168.0.128 192.168.0.129 192.168.0.142 192.168.0.143 12 1001 4 /28 192.168.0.144 192.168.0.145 192.168.0.159 8 1010 4 /28 192.168.0.160 192.168.0.161 192.168.0.174 192.168.0.175 5 10110 3 /29 192.168.0.176 192.168.0.177 192.168.0.182 192.168.0.183 2 101110 2 /30 192.168.0.184 192.168.0.185 192.168.0.186 192.168.0.187 2 101111 2 /30 192.168.0.188 192.168.0.189 192.168.0.190 192.168.0.191	Master Bit-	Class : C							
25 010 5 /27 192.168.0.64 192.168.0.65 192.168.0.94 192.168.0.95 18 011 5 /27 192.168.0.96 192.168.0.97 192.168.0.126 192.168.0.127 14 1000 4 /28 192.168.0.128 192.168.0.129 192.168.0.142 192.168.0.143 12 1001 4 /28 192.168.0.144 192.168.0.145 192.168.0.158 192.168.0.159 8 1010 4 /28 192.168.0.160 192.168.0.161 192.168.0.174 192.168.0.175 5 10110 3 /29 192.168.0.176 192.168.0.177 192.168.0.182 192.168.0.183 2 101110 2 /30 192.168.0.184 192.168.0.185 192.168.0.196 192.168.0.191 2 101111 2 /30 192.168.0.188 192.168.0.189 192.168.0.190 192.168.0.191	No of Host	subnet bits	host bits	Subnet mask	Subnet ID	Firs host	Last Host	Boadcast	
18 011 5 /27 192.168.0.96 192.168.0.97 192.168.0.126 192.168.0.127 14 1000 4 /28 192.168.0.128 192.168.0.129 192.168.0.142 192.168.0.143 12 1001 4 /28 192.168.0.144 192.168.0.145 192.168.0.158 192.168.0.159 8 1010 4 /28 192.168.0.160 192.168.0.161 192.168.0.174 192.168.0.175 5 10110 3 /29 192.168.0.176 192.168.0.177 192.168.0.182 192.168.0.183 2 10110 2 /30 192.168.0.184 192.168.0.185 192.168.0.186 192.168.0.187 2 10111 2 /30 192.168.0.188 192.168.0.189 192.168.0.190 192.168.0.191	60	00	6	/26	192.168.0.0	192.168.0.1	192.168.0.62	192.168.0.63	
14 1000 4 /28 192.168.0.128 192.168.0.129 192.168.0.142 192.168.0.143 12 1001 4 /28 192.168.0.144 192.168.0.145 192.168.0.158 192.168.0.159 8 1010 4 /28 192.168.0.160 192.168.0.161 192.168.0.174 192.168.0.175 5 10110 3 /29 192.168.0.176 192.168.0.177 192.168.0.182 192.168.0.183 2 101110 2 /30 192.168.0.184 192.168.0.185 192.168.0.186 192.168.0.187 2 10111 2 /30 192.168.0.188 192.168.0.189 192.168.0.190 192.168.0.191	25	010	5	/27	192.168.0.64	192.168.0.65	192.168.0.94	192.168.0.95	
12 1001 4 /28 192.168.0.144 192.168.0.145 192.168.0.158 192.168.0.159 8 1010 4 /28 192.168.0.160 192.168.0.161 192.168.0.174 192.168.0.175 5 10110 3 /29 192.168.0.176 192.168.0.177 192.168.0.182 192.168.0.183 2 10110 2 /30 192.168.0.184 192.168.0.185 192.168.0.186 192.168.0.187 2 10111 2 /30 192.168.0.188 192.168.0.189 192.168.0.190 192.168.0.191	18	011	5	/27	192.168.0.96	192.168.0.97	192.168.0.126	192.168.0.127	
8 1010 4 /28 192.168.0.160 192.168.0.161 192.168.0.174 192.168.0.175 5 10110 3 /29 192.168.0.176 192.168.0.177 192.168.0.182 192.168.0.183 2 101110 2 /30 192.168.0.184 192.168.0.185 192.168.0.186 192.168.0.187 2 101111 2 /30 192.168.0.188 192.168.0.189 192.168.0.190 192.168.0.191	14	1000	4	/28	192.168.0.128	192.168.0.129	192.168.0.142	192.168.0.143	
5 10110 3 /29 192.168.0.176 192.168.0.177 192.168.0.182 192.168.0.183 2 101110 2 /30 192.168.0.184 192.168.0.185 192.168.0.186 192.168.0.187 2 101111 2 /30 192.168.0.188 192.168.0.189 192.168.0.190 192.168.0.191	12	1001	4	/28	192.168.0.144	192.168.0.145	192.168.0.158	192.168.0.159	
2 101110 2 /30 192.168.0.184 192.168.0.185 192.168.0.186 192.168.0.187 2 101111 2 /30 192.168.0.188 192.168.0.189 192.168.0.190 192.168.0.191	8	1010	4	/28	192.168.0.160	192.168.0.161	192.168.0.174	192.168.0.175	
2 101111 2 /30 192.168.0.188 192.168.0.189 192.168.0.190 192.168.0.191	5	10110	3	/29	192.168.0.176	192.168.0.177	192.168.0.182	192.168.0.183	
	2	101110	2	/30	192.168.0.184	192.168.0.185	192.168.0.186	192.168.0.187	
2-Extra 110000 2 /30 192.168.0.192 192.168.0.193	2	101111	2	/30	192.168.0.188	192.168.0.189	192.168.0.190	192.168.0.191	
	2-Extra	110000	2	/30	192.168.0.192	192.168.0.193			