IP address classes

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Class	1 st Octet Decimal Range	1 st Octet High Order Bits	Network/Host ID (N=Network, H=Host)	Default Subnet Mask	Number of Networks	Hosts per Network (Usable Addresses)	
А	1 – 126*	0	N.H.H.H	255.0.0.0	126 (2 ⁷ – 2)	16,777,214 (2 ²⁴ – 2)	
В	128 – 191	10	N.N.H.H	255.255.0.0	16,382 (2 ¹⁴ – 2)	65,534 (2 ¹⁶ – 2)	
С	192 – 223	110	N.N.N.H	255.255.255.0	2,097,150 (2 ²¹ – 2)	254 (2 ⁸ – 2)	
D	224 – 239	1110	Reserved for Multicasting				
E	240 – 254	1111	Experimental; used for research				

Note: Class A addresses 127.0.0.0 to 127.255.255.255 cannot be used and is reserved for loopback and diagnostic functions.

Private IP Addresses

Class	Private Networks	Subnet Mask	Address Range
А	10.0.0.0	255.0.0.0	10.0.0.0 - 10.255.255.255
В	172.16.0.0 - 172.31.0.0	255.240.0.0	172.16.0.0 - 172.31.255.255
С	192.168.0.0	255.255.0.0	192.168.0.0 - 192.168.255.255

Hosted at Novgorod State University