IP Addressing & Subnetting (Assignment – Quick Way Practice)
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Question 1:

You are given a class C network block of **192.168.100.0**. Subnet the network block to support up to 5 subnets. Keep subnet bits to minimum to support maximum number of hosts. Use the quick way (Ninja Method) to build the following table:

Network ID	Valid IP Range	Broadcast Address	Subnet Mask

Answer these after building the table:
1. How many valid host IP are possible per subnet?
2. Does the design allow you to create more than 5 subnets? How many more can you create, if needed?

Question 2:

You are given a class B network block of **172.16.0.0**. Subnet the network block to support up to 25 subnets. Keep subnet bits to minimum to support maximum number of hosts. Use the quick way (Ninja Method) to build the following table:

Network ID	Valid IP Range	Broadcast Address	Subnet Mask

Answer these after building the table:
1. How many valid host IP are possible per subnet?
2. Does the design allow you to create more than 25 subnets? How many more can you create, if needed?

Question 3:

You are given a class A network block of **10.0.0.0**. Subnet the network block to support up to 1000 subnets. Keep subnet bits to minimum to support maximum number of hosts. Use the quick way (Ninja Method) to build the following table:

Network ID	Valid IP Range	Broadcast Address	Subnet Mask

Answer these after building the table:
1. How many valid host IP are possible per subnet?
2. Does the design allow you to create more than 1000 subnets? How many more can you create, if needed?