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## 158.15.0.0 - creating 200 subnets

Step 1: **Class of IP:** 158.15.0.0- Class B  
158.15.00000000.00000000.

Step 2: **Requirement:** 200 subnets

Step 3: **Borrowed bits:** 8

$2^8 - 2 \Rightarrow 200 = 256$  subnets

256 - 2 = 254 True

Step 4: **New subnet mask:** 255.255.255.0

11111111.11111111.11111111.00000000

8 bits = 255 -----there is only 8 bits borrowed from the third octet.

158.15.255.0

Step 5: **Range = 1**

There is 0 remaining bits

Range between network:  $2^0 = 1$

256-Subnet Mask-----256-255= 1

Step 6: **Plot the table**