<div dir="rtl">

مریم خدایاری

۴۰۱۱۳۰۲۹۳

پاسخ سوال ۱:

</div>

192.068.1.0/24:

2^n =4

N=2

11111111.11111111.1111111.11000000

2^6=64

<div dir="rtl">
پس هر ساب نت ۶۴ آدرس دارد
</div>

1. 192.168.1.0/26

192.168.1.0/26

192.168.1.1 ... 192.168.1.62

192.168.1.63

3.192.168.1.128

192.168.1.128 ... 192.168.1.126

192.168.1.191

4. 192.168.1.192

192.168.1.193 ... 192.168.1.254

192.168.1.255

<div dir="rtl">
پاسخ سوال ۲:
</div>

172.16.0.0/16

2^n =16

N=4

11111111.11111111.110000.00000000

2^12=4096

پس هر ساب نت ۴۰۹۶ آدرس دارد

1.172.16.0.0

172.16.0.1 ... 172.16.15.254

 172.16.15.255

2.172.16.16.0

172.16.16.1 ... 172.16.31.254

172.16.31.255

3.172.16.32.0

172.16.32.1 ... 172.16.47.254

172.16.47.255

4.172.16.48.0

172.16.48.1 ... 172.16.63.254

172.16.63.255

5.172.16.64.0

172.16.64.1 ... 172.16.79.254

172.16.79.255

6.172.16.80.0

172.16.80.1 ... 172.16.95.254

172.16.95.255

7.172.16.96.0

172.16.96.1 ... 172.16.111.254

172.16.111.255

8.172.16.112.0

172.16.112.1 ... 172.16.127.254

172.16.127.2550

9.172.16.128.0

172.16.128.1 ... 172.16.143.254

172.16.143.255

10.172.16.144.0

172.16.144.1 ... 172.16.159.254

172.16.159.255

11.172.16.160.0

172.16.160.1 ... 172.16.175.254

172.16.175.255

12.172.16.176.0

172.16.176.1 ... 172.16.191.254

172.16.191.255

13.172.16.192.0

172.16.192.1 ... 172.16.207.254

172.16.207.255

14.172.16.208.0

172.16.208.1 ... 172.16.223.254

172.16.223.255

15.172.16.224.0

172.16.224.1 ... 172.16.239.254

172.16.239.255

16.172.16.240.0

172.16.240.1 ... 172.16.255.254

172.16.255.255

پاسخ سوال۳:

10.0.0.0/8

$2^n = 64$

N=6

11111111.11111100.000000.00000000

$2^{18} = 262144$

پس هر ساب نت ۲۶۲۱۱۴۴ آدرس دارد

1.10.0.0.0

10.0.0.1 ... 10.3.255.254

10.3.255.255

2.10.4.0.0

10.4.0.1 ... 10.7.255.254

10.7.255.255

3.10.8.0.0

10.8.0.1 ... 10.11.255.254

10.11.255.255

.

.

.

64.10.252.0.0

10.252.0.1 ... 10.255.255.254

10.255.255.255

<div dir="rtl">پاسخ سوال۴:</div>

192.168.10.0/24

2^n =8

N=3

11111111.11111111.11111111.11100000

2=5^2

<div dir="rtl">پس هر سابنت ۳۲ آدرس دارد</div>

1. 192.168.10.0

192.168.10.1 ... 192.168.10.30

192.168.10.31

2.192.168.10.32

192.168.10.33 ... 192.168.10.62

192.168.10.63

3.192.168.10.64

192.168.10.65 ... 192.168.10.94

192.168.10.95

4.192.168.10.96

192.168.10.97 ... 192.168.10.126

192.168.10.127

5.168.10.128

192.168.10.129 ... 192.168.10.158

192.168.10.159

6.192.168.10.160

192.168.10.161 ... 192.168.10.190

192.168.10.191

7.192.168.10.192

192.168.10.193 ... 192.168.10.222

192.168.10.223

8.192.168.10.224

192.168.10.225 ... 192.168.10.254

192.168.10.2555

پاسخ سوال ۵:

172.31.0.0/16

N^2=128

N=7

11111111.11111111.11111110.00000000

2^9=512

پس هر سابنت ۵۱۲ آدرس دارد

1. 172.31.0.0

 172.31.0.1...172.31.1.254

 172.31.1.255

2.172.31.2.0

 172.31.2.1... 172.31.3.254

 172.31.3.255

3.172.31.4.3

172.31.4.1...172.31.5.254

172.31.5.255

4.172.31.6.0

172.31.6.1...172.31.7.254

172.31.7.255

.

.

.

128.172.31.254.0

172.31.254.1... 172.31.255.254

172.31.255.255

<div dir="rtl">

پاسخ سوال ۶:

</div>

10.10.0.0/16

2^n =1000

2^10 =1024

N=10

11111111.11111111.11111111.11000000

2^6=64

1. 10.10.0.0

10.10.0.1... 10.10.0.62

10.10.0.63

2. 10.10.0.64

10.10.0.65... 10.10.0.126

10.10.1.127

3. 10.10.0.128

10.10.10.129... 10.10.0.190

10.10.0.191

.

.

.

1000. 10.10.250.0

 10.10.250.1... 10.10.250.62

 10.10.250.63

<div dir="rtl">پاسخ سوال ۷:</div>

192.168.0.0/16

$2^n = 1024$

N=10

11111111.11111111.11111111.11000000

$2^6 = 64$

1.192.168.0.0

 192.168.0.1 ... 192.168.0.62

 192.168.0.63

2.192.168.0.64

 192.168.0.65 ... 192.168.0.126

 192.168.0.127

3.192.168.0.128

 192.168.0.129 ... 192.168.0.190

 192.168.0.191

.

.

.

.

1024.192.168.255.192

192.168.255.192 ... 192.168.255.254

192.168.255.255