```
Online Gaming Techologies. Lat 3
QO Pr. (1) p"q"
        P(x \ge 2) = 1 - P(x = 0) - P(x = 1)
= 1 - (0) p^{n}q^{n} - (1) p^{n}q^{n}
= 1 - (n+1)(\frac{1}{2})^{n}
0.2 = (n+1)(\frac{1}{2})^{n}
Q1:
       10.1.5.65
         0000 1010. 00000001. 00000101. 01000001
         0000 1010. 0000 0001, 00000 101. 01000000
       It will go to 10.1.5.64/29 as it is the largest match to where the packet needs to go to.
address: 131.23.151.76
        000 11100.0000000.00000doo
                  (00000 II.
         131.22.0.0115 is the closest match or it matches
                                        000 10 110.0000000.0000000
         the largest prefix with 131.23.151.76
          192.24.0.0 [18
          192.24.12.0122
          11000000.000 11000.0000 1100.00000000 B
          192.24.6.0 will so to D
11000000.000 11000.00000110.00000000
          192.24.14.32 will go to B
11000000.00011000.00001110.00100000
          192.24.54.0 will go to B
11000000.000 11000.00110110.0000000
```