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1. Theta(n)
2. def factorial(n):

if n == 1:

return 1

return n \* factorial(n-1)

1. Theta(n2)
2. a) fI(x) = 6x+5

b) fI(5) = 5

c) fII(x) = 6

d) fII(5) = 6

1. P(A and B) = 0.18

P(A or B) = 0.3 + 0.6 – 0.18 = 0.72

P(not A) = 1 – P(A) = 0.7

P(A | B) = 0.3

1. a) P(price < $75) = 0.6375

b) P(price < $75 | color = green) = 0.6842

c) P(price < $75, color = green) = 0.1625

1. 2 hens lay 2 eggs in 2 days

2 hens lay 10 eggs in 10 days

10 hens lay 50 eggs in 10 days

50 eggs.