IT24103965 S.Shruthihan Lab 06

IT24103965 lb 6.r* ×

Source on Save

```r
1   setwd("C:\\Users\\IT24103965 lb 6\\Downloads\\IT24103965 lb 6")
2
3   # Part 1
4   # Random variable X has binomial distribution with n=50 and p=0.85
5   n <- 50
6   p <- 0.85
7
8   # Part 2: P(X >= 47) = 1 - P(X <= 46)
9   p_ge_47 <- pbinom(46, n, p, lower.tail = FALSE)
10  cat("P(X >= 47) =", p_ge_47, "\n")
11
12  # Part 3
13  # Number of calls received in a call center per day
14
15  # Part 4
16  # random variable X has call distribution with lambda=12
17  lambda <- 12
18
19  # Part 5: P(X = 15)
20  p_eq_15 <- dpois(15, lambda)
21  cat("P(X = 15) =", p_eq_15, "\n")|
```

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Console   Terminal ×   Jobs ×

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```r
> # Part 1
> # Random variable X has binomial distribution with n=50 and p=0.85
> n <- 50
> p <- 0.85
>
> # Part 2: P(X >= 47) = 1 - P(X <= 46)
> p_ge_47 <- pbinom(46, n, p, lower.tail = FALSE)
> cat("P(X >= 47) =", p_ge_47, "\n")
P(X >= 47) = 0.04604658
>
> # Part 3
> # Number of calls received in a call center per day
>
> # Part 4
> # random variable X has call distribution with lambda=12
> lambda <- 12
>
> # Part 5: P(X = 15)
> p_eq_15 <- dpois(15, lambda)
> cat("P(X = 15) =", p_eq_15, "\n")
P(X = 15) = 0.07239112
> |
```