HW1_zhengzhi

zhengzhi lin

2019.9.2

P2

partA
I want to get skills of a good swimmer and a burger eater out of this class. List: tidy output, keras, burgers.

partB
Three density funtions: pmf of poisson distribution:

$$p(k) = \frac{\lambda^k e^{-\lambda}}{k!} \tag{1}$$

pdf of normal standard distribution:

$$f(x) = \frac{1}{\sqrt{2\pi}} e^{-\frac{x^2}{2}} \tag{2}$$

pdf of uniform distribution:

$$f(x) = \begin{cases} \frac{1}{a-b}, & \text{for } a \leq x \leq b \\ 0, & \text{otherwise} \end{cases} \tag{3}$$

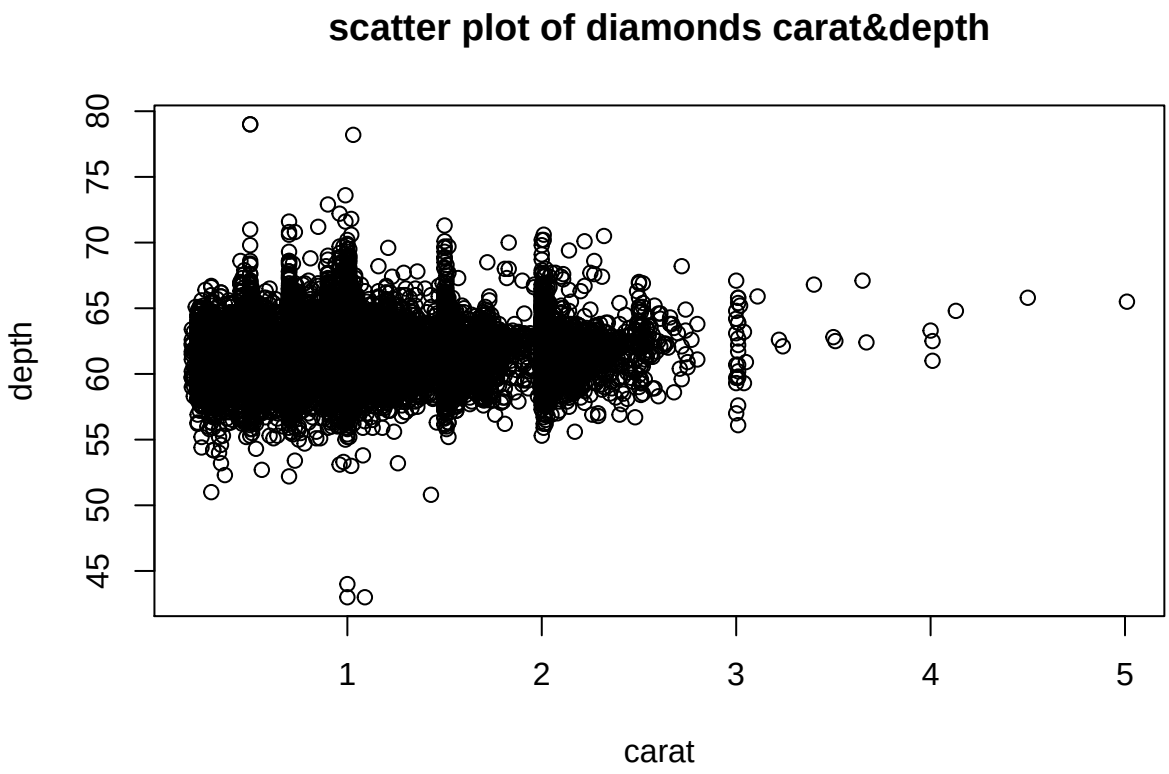
P3

P4

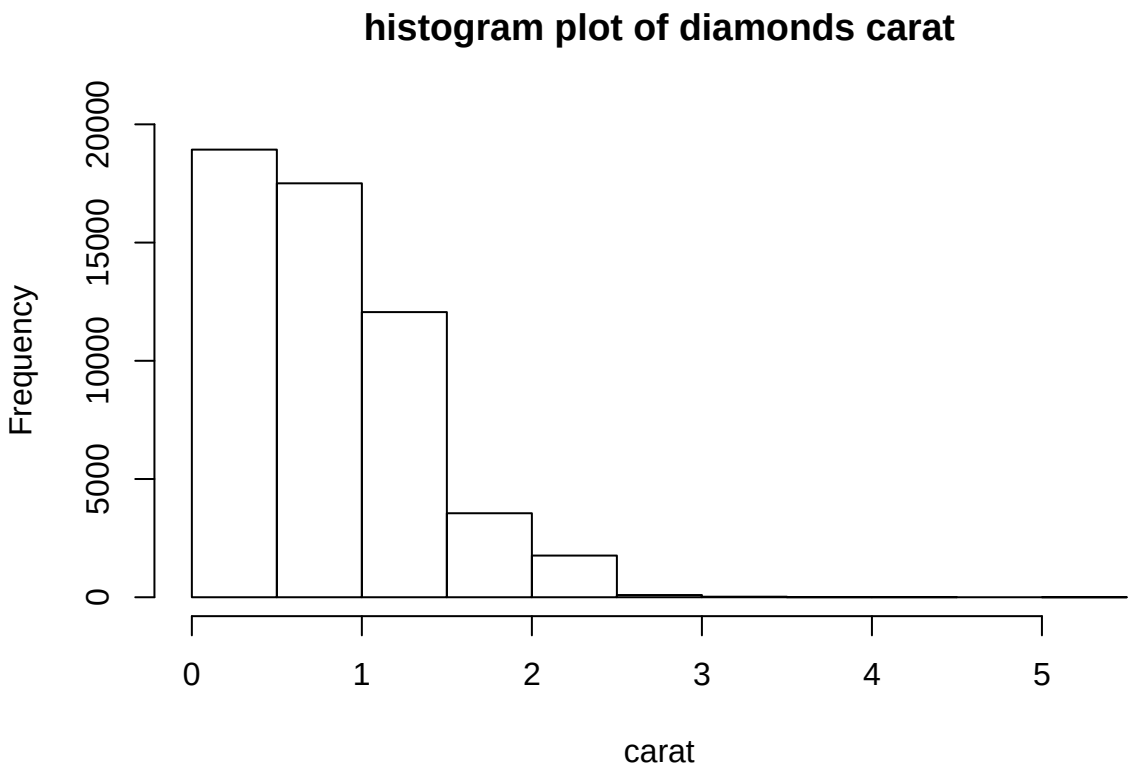
```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 3.5.1
```

```
data(diamonds)
plot(x=diamonds$carat,y=diamonds$depth,
     main = "scatter plot of diamonds carat&depth",
     ylab = "depth",xlab = "carat")
```




```
hist(x=diamonds$carat, xlab = "carat",
     main = "histogram plot of diamonds carat",
     ylim = c(0,20000))
```



Summary of problem 4: