

## Q2

### 1: Price summary

#### Output 1: Summarised price statistics for Paris and Copenhagen Airbnbs (per night)

COPENHAGEN:

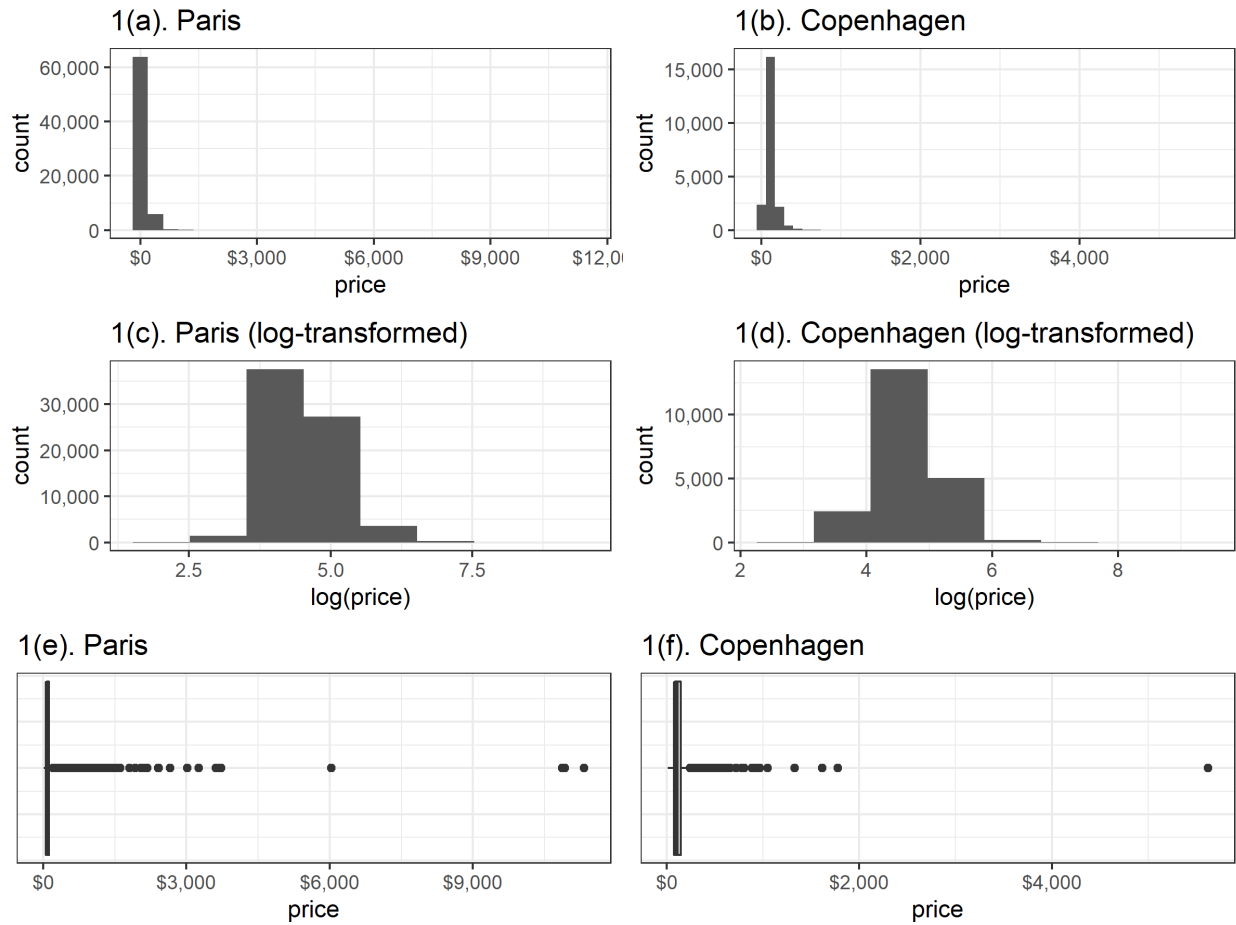
##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	10.0	60.0	84.0	110.8	121.0	11323.0

#####

PARIS:

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	10.0	77.0	105.0	118.4	144.0	5620.0

**Figure 1: Boxplots and histograms for price data, Paris and Copenhagen**



## Output 2: Two-sample t-test.

```
NORMAL PRICE VARIABLE

## Two Sample t-test
##
## data:  ttest$price by ttest$city
## t = 8.1195, df = 91457, p-value = 4.74e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  5.766361 9.436151
## sample estimates:
## mean in group Copenhagen      mean in group Paris
##           118.3664              110.7652

## #####
LOG-TRANSFORMED PRICE VARIABLE:

## Two Sample t-test
##
## data:  ttest$price2 by ttest$city
## t = 32.913, df = 91457, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  0.1355903 0.1527617
## sample estimates:
## mean in group Copenhagen      mean in group Paris
##           4.646323              4.502147

## #####

NORMAL PRICE VARIABLE

## Wilcoxon rank sum test with continuity correction
##
## data:  ttest$price by ttest$city
## W = 896935657, p-value < 2.2e-16
## alternative hypothesis: true location shift is not equal to 0
```