

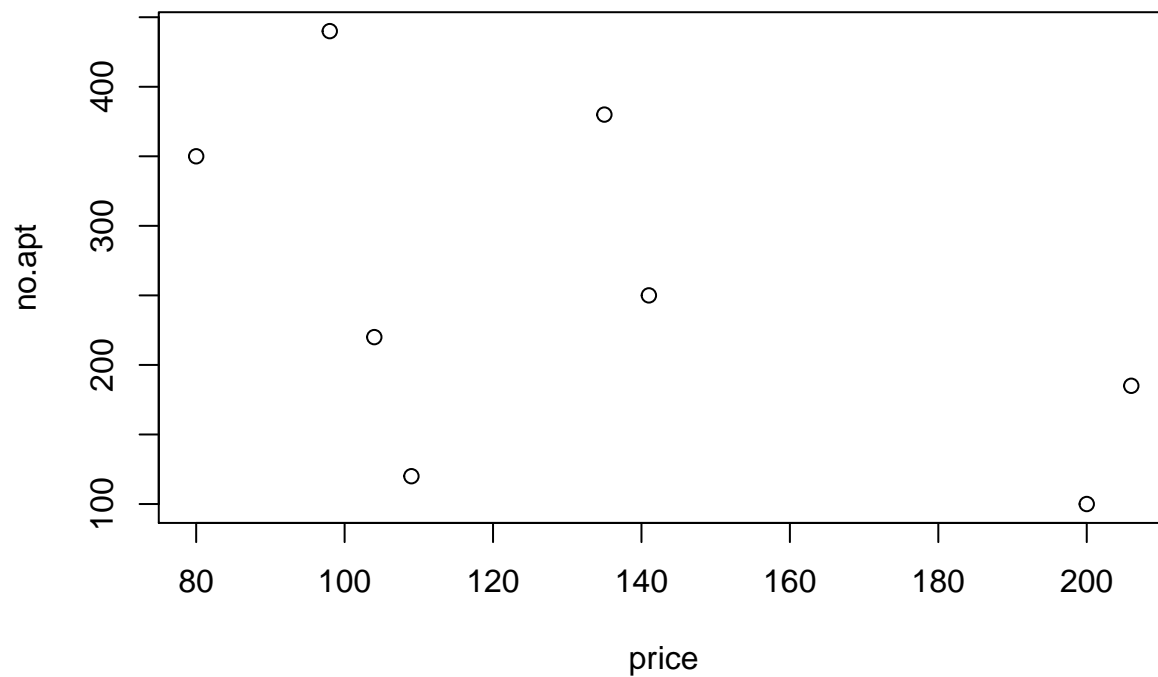
# NDH802 Solutions to rec. exercises Chap 2 and 3

Huong

5/2/2021

## 1.4

```
#Data  
price = c(104, 135, 80, 200, 98, 206, 141, 109)  
no.aprt = c(220, 380, 350, 100, 440, 185, 250, 120)  
plot(price, no.aprt)
```



## 2.4

```
data_q2.4 = c(2.51, 3.74, 4.15, 5.33, 6.18, 6.65, 6.92, 6.95, 7.18, 7.54)  
mean(data_q2.4)
```

```
## [1] 5.715
```

```
median(data_q2.4)
```

```
## [1] 6.415
```

## 2.12

```
data_q2.12 = c(5, 9, 10, 2, 7, 9, 14)
var(data_q2.12)
```

```
## [1] 14.66667
```

```
sd(data_q2.12)
```

```
## [1] 3.829708
```

## 2.20

```
eur_usd = c(1.1410, 1.1363, 1.1351, 1.1324, 1.1276, 1.1332, 1.1266)
usd_jyp = c(109.95, 109.96, 109.80, 109.77, 110.41, 110.48, 110.00)
mean(eur_usd) < mean(usd_jyp)
```

```
## [1] TRUE
```

```
sd(eur_usd) < sd(usd_jyp)
```

```
## [1] TRUE
```

## 3.7

---

|          |          |           |           |           |
|----------|----------|-----------|-----------|-----------|
| 1. M1,M2 | 5. M2,M1 | 9. M3,M1  | 13. T1,M1 | 17. T2,M1 |
| 2. M1,M3 | 6. M2,M3 | 10.M3,M2  | 14. T1,M2 | 18. T2,M2 |
| 3. M1,T1 | 7. M2,T1 | 11. M3,T1 | 15. T1,M3 | 19. T2,M3 |
| 4. M1,T2 | 8. M2,T2 | 12. M3,T2 | 16. T1,T2 | 20. T2,T1 |

---