```
set.seed(000)
n_friends <- 20
Edward <- rnorm(n_friends, mean=170, sd=10)</pre>
Hugo <- rnorm(n_friends, mean=175, sd=15)</pre>
Lucy <- rnorm(n_friends, mean=180, sd=20)</pre>
heights <- data.frame(Edward= Edward, Hugo= Hugo, Lucy= Lucy)
heights
##
        Edward
                   Hugo
## 1 182.6295 171.6360 215.1581
## 2 166.7377 180.6609 191.2149
## 3 183.2980 177.0000 170.9443
## 4 182.7243 187.0628 163.3591
## 5 174.1464 174.1434 156.6686
## 6 154.6005 182.5541 158.6882
## 7 160.7143 191.2865 148.7244
## 8 167.0528 164.6357 203.1307
## 9 169.9423 155.7310 196.6409
## 10 194.0465 175.7009 175.4534
## 11 177.6359 171.4644 185.3227
## 12 162.0099 166.8567 172.4659
## 13 158.5234 168.5003 228.8273
## 14 167.1054 165.2579 164.0932
## 15 167.0078 185.9013 178.9025
## 16 165.8849 192.2787 185.0028
## 17 172.5222 189.8824 192.3649
## 18 161.0808 168.5573 176.5475
## 19 174.3568 193.5746 135.5220
## 20 157.6246 170.8098 154.7277
set.seed(111)
n_friends <- 20
Edward <- rnorm(n_friends, mean=170, sd=10)</pre>
Hugo <- rnorm(n_friends, mean=175, sd=15)</pre>
Lucy <- rnorm(n_friends, mean=180, sd=20)</pre>
heights <- data.frame(Edward= Edward, Hugo= Hugo, Lucy= Lucy)
heights
##
        Edward
                   Hugo
                            Lucy
## 1 172.3522 180.4249 156.4855
## 2 166.6926 180.2045 157.5757
## 3 166.8838 177.8460 152.7619
## 4 146.9765 172.6063 189.6225
## 5 168.2912 179.8982 194.8394
## 6 171.4028 183.9738 180.5565
## 7 155.0257 147.3770 186.6276
```

```
## 8 159.8981 215.7708 192.8823
## 9 160.5152 177.8687 229.7132
## 10 165.0604 155.4806 219.1996
## 11 168.2633 128.3017 183.8333
## 12 165.9340 160.8796 211.0509
## 13 188.4564 196.0039 198.2848
## 14 173.9405 150.6929 187.1725
## 15 177.9753 141.0101 183.5019
## 16 154.3333 192.4449 163.0546
## 17 169.1415 173.2577 199.5646
## 18 166.4086 180.0138 216.1174
## 19 158.0639 165.6871 182.4583
## 20 173.6419 155.3523 177.4046
set.seed(222)
n_friends <- 20
Edward <- rnorm(n_friends, mean=170, sd=10)</pre>
Hugo <- rnorm(n_friends, mean=175, sd=15)</pre>
Lucy <- rnorm(n_friends, mean=180, sd=20)</pre>
heights <- data.frame(Edward= Edward, Hugo= Hugo, Lucy= Lucy)
heights
##
        Edward
                   Hugo
                            Lucy
## 1 184.8776 185.8968 184.0477
## 2 169.9811 185.7049 189.9020
## 3
     183.8102 165.2491 168.6129
## 4 166.1979 197.4804 202.3859
## 5 171.8414 153.4626 224.1816
## 6 167.5310 142.5802 186.3437
## 7
     157.8444 180.9283 161.2941
## 8 185.6141 169.0775 196.2732
## 9 174.2731 170.3536 172.4927
## 10 157.9898 194.9624 186.6620
## 11 180.5246 162.7386 191.8883
## 12 156.9494 185.1384 190.4174
## 13 163.0739 171.7678 160.9591
## 14 176.0265 173.2803 155.4463
## 15 168.0225 171.9660 175.9519
## 16 158.1413 181.0974 201.1824
## 17 149.9449 184.8516 187.6356
```

18 170.0751 176.5929 204.7939 ## 19 175.1949 172.2340 186.3355 ## 20 162.5370 189.1905 159.1324