Exercise 3a

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```
Code:
rm(list=ls())
#1
library(MASS)
library(dplyr)
newsurvey=na.omit(survey)
#2
filter(newsurvey, Sex=="Male", W.Hnd=="Left")
Output:
> #2
> filter(newsurvey, Sex=="Male", W.Hnd=="Left")
 Sex Wr. Hnd NW. Hnd W. Hnd Fold Pulse Clap Exer Smoke Height
1 Male 19.5 20.5 Left R on L 104 Left None Regul 177.80
2 Male 19.4 19.2 Left R on L 74 Right Some Never 182.88
3 Male 22.0 21.5 Left R on L 55 Left Freq Never 200.00
4 Male 23.0 22.0 Left L on R 83 Left Some Heavy 193.04
5 Male 19.8 20.0 Left L on R 59 Right Freq Never 180.00
6 Male 20.5 19.5 Left L on R 80 Right Some Occas 182.88
7 Male 17.5 17.0 Left L on R 97 Neither None Never 165.00
   M.I Age
1 Imperial 17.583
2 Imperial 18.333
3 Metric 18.500
```

- 4 Imperial 18.917
- 5 Metric 17.417
- 6 Imperial 18.667
- 7 Metric 19.500

#3

filter(newsurvey, Sex=="Female", Clap=="Right")

Output:

```
> filter(newsurvey, Sex=="Female", Clap=="Right")
   Sex Wr.Hnd NW.Hnd W.Hnd Fold Pulse Clap Exer Smoke
1 Female 18.0 17.7 Right L on R 64 Right Some Never
2 Female 17.0 17.3 Right R on L 74 Right Freq Never
3 Female 17.0 17.2 Right Lon R 80 Right Freq Never
4 Female 17.1 17.5 Right R on L 72 Right Freq Heavy
5 Female 17.8 18.0 Right R on L 72 Right Some Never
6 Female 20.1 20.2 Right L on R 80 Right Some Never
7 Female 18.0 17.6 Right R on L 60 Right Some Occas
8 Female 19.6 19.7 Right Lon R 70 Right Freq Never
9 Female 17.0 16.6 Right R on L 68 Right Some Never
```

- 10 Female 17.5 17.5 Right Neither 68 Right Freq Heavy
- 11 Female 17.0 17.6 Right Lon R 76 Right Some Never
- 12 Female 17.7 17.0 Right R on L 76 Right Some Never
- 13 Female 18.2 18.0 Right Lon R 70 Right Some Never
- 14 Female 18.2 17.5 Right Lon R 70 Right Some Never
- 15 Female 17.5 17.5 Right R on L 60 Right Freq Never
- 16 Female 17.5 17.3 Right R on L 72 Right Freq Never
- 17 Female 19.5 18.5 Right R on L 80 Right Some Never
- 18 Female 17.2 16.7 Right R on L 75 Right Freq Never
- 19 Female 16.9 16.0 Right Lon R 70 Right None Never
- 20 Female 17.0 16.7 Right R on L 70 Right Some Never
- 21 Female 18.5 18.0 Right R on L 92 Right Freq Never

22 Female	16.0	16.0 Right R on L	68 Right Freq Never
23 Female	17.5	17.0 Right R on L	74 Right Freq Never
24 Female	16.4	16.5 Right L on R	90 Right Some Never
25 Female	19.5	18.5 Right Lon R	68 Right None Never
26 Female	18.0	18.6 Right R on L	84 Right Some Never
27 Female	19.0	18.8 Right R on L	65 Right Freq Never
28 Female	13.0	12.5 Right Lon R	80 Right Freq Never
29 Female	16.3	16.2 Right L on R	92 Right Some Regul
30 Female	18.9	19.2 Right L on R	74 Right Some Never
31 Female	19.5	19.2 Right R on L	70 Right Some Never
32 Female	16.5	15.0 Right Lon R	65 Right Some Regul
33 Female	17.0	16.5 Right R on L	70 Right Some Never
34 Female	17.5	17.6 Right Lon R	79 Right Some Never
35 Female	17.0	17.0 Right Lon R	79 Right Some Never
36 Female	17.0	17.6 Right Lon R	76 Right Some Never
37 Female	19.1	19.0 Right R on L	80 Right Some Occas
38 Female	16.2	15.8 Right R on L	61 Right Some Occas
39 Female	18.5	18.0 Right Neither	86 Right None Never
40 Female	17.5	17.6 Right Lon R	76 Right Some Never
41 Female	18.6	18.6 Right L on R	74 Right Some Never
42 Female	18.0	17.8 Right Lon R	68 Right Some Never
43 Female	15.9	16.5 Right R on L	70 Right Freq Never
44 Female	17.5	18.4 Right R on L	88 Right Some Never
45 Female	18.8	18.3 Right R on L	80 Right Some Heavy
46 Female	18.6	18.8 Right Lon R	70 Right Freq Regul
47 Female	18.8	18.5 Right R on L	80 Right Some Never
48 Female	18.0	18.0 Right Lon R	85 Right Some Never
49 Female	18.5	18.0 Right L on R	88 Right Some Never
50 Female	17.6	17.3 Right R on L	85 Right Freq Never
Height	M.I	Age	

1 172.72 Imperial 21.000

- 2 157.00 Metric 35.833
- 3 156.20 Imperial 28.500
- 4 166.40 Imperial 39.750
- 5 154.94 Imperial 17.083
- 6 176.50 Imperial 17.500
- 7 168.00 Metric 18.417
- 8 178.00 Metric 17.500
- 9 171.00 Metric 17.667
- 10 170.00 Metric 20.667
- 11 165.00 Metric 23.583
- 12 167.00 Metric 17.250
- 13 162.56 Imperial 18.000
- 14 165.00 Metric 19.667
- 15 166.50 Metric 23.250
- 16 175.00 Metric 20.167
- 17 170.00 Metric 18.250
- 18 170.18 Imperial 21.167
- 19 158.00 Metric 20.500
- 20 159.00 Metric 22.917
- 21 172.00 Metric 17.500
- 22 172.72 Imperial 17.667
- 23 157.00 Metric 18.000
- 24 152.00 Metric 18.333
- 25 167.00 Metric 18.667
- 26 175.00 Metric 17.500
- 27 172.72 Imperial 17.250
- 28 165.00 Metric 18.167
- 29 152.40 Imperial 23.500
- 30 167.64 Imperial 44.250
- 31 170.00 Metric 18.167
- 32 160.02 Imperial 32.750

```
33 162.56 Imperial 17.167
```

34 162.50 Metric 17.250

35 163.00 Metric 24.667

36 165.00 Metric 26.500

37 170.00 Metric 19.167

38 167.00 Metric 19.250

39 160.00 Metric 20.167

40 153.50 Metric 17.417

41 160.00 Metric 17.167

42 168.90 Imperial 17.083

43 167.64 Imperial 17.333

44 162.56 Imperial 18.167

45 170.18 Imperial 18.417

46 167.00 Metric 20.333

47 169.00 Metric 18.167

48 165.10 Imperial 17.667

49 160.00 Metric 16.917

50 168.50 Metric 17.750

#4

filter(newsurvey, Exer=="None")

Output:

#4

> filter(newsurvey, Exer=="None")

Sex Wr.Hnd NW.Hnd W.Hnd Fold Pulse Clap Exer Smoke

- 1 Male 19.5 20.5 Left R on L 104 Left None Regul
- 2 Male 22.5 23.0 Right R on L 96 Right None Never
- 3 Female 18.0 17.9 Right R on L 50 Left None Never
- 4 Female 15.5 15.4 Right R on L 70 Neither None Never
- 5 Male 18.9 19.1 Right L on R 60 Neither None Never
- 6 Male 19.2 19.6 Right L on R 80 Right None Never

```
7 Female 16.9 16.0 Right Lon R 70 Right None Never
```

- 8 Female 19.5 18.5 Right L on R 68 Right None Never
- 9 Male 18.9 19.1 Right L on R 68 Right None Never
- 10 Female 17.5 17.1 Right R on L 80 Left None Never
- 11 Male 18.5 18.5 Right R on L 65 Right None Never
- 12 Male 17.9 18.4 Right R on L 68 Left None Occas
- 13 Female 18.5 18.0 Right Neither 86 Right None Never
- 14 Male 17.5 17.0 Left L on R 97 Neither None Never

Height M.I Age

- 1 177.80 Imperial 17.583
- 2 170.00 Metric 19.417
- 3 165.00 Metric 30.750
- 4 157.48 Imperial 17.167
- 5 170.00 Metric 17.750
- 6 190.50 Imperial 18.167
- 7 158.00 Metric 20.500
- 8 167.00 Metric 18.667
- 9 180.34 Imperial 43.833
- 10 167.00 Metric 18.417
- 11 165.00 Metric 18.500
- 12 176.00 Metric 18.917
- 13 160.00 Metric 20.167
- 14 165.00 Metric 19.500

#5

dplyr::select(newsurvey,Sex, Age, W.Hnd)

Output:

#5

> dplyr::select(newsurvey,Sex, Age, W.Hnd)

Sex Age W.Hnd

1 Female 18.250 Right

- 2 Male 17.583 Left
- 5 Male 23.667 Right
- 6 Female 21.000 Right
- 7 Male 18.833 Right
- 8 Female 35.833 Right
- 9 Male 19.000 Right
- 10 Male 22.333 Right
- 11 Female 28.500 Right
- 14 Female 17.500 Right
- 17 Female 19.333 Right
- 18 Male 18.333 Left
- 20 Male 17.917 Right
- 21 Male 17.917 Right
- 22 Male 18.167 Right
- 23 Male 17.833 Right
- 24 Male 18.250 Right
- 27 Male 17.500 Right
- 28 Male 18.083 Right
- 30 Male 19.250 Right
- 32 Male 17.500 Right
- 33 Female 39.750 Right
- 34 Male 17.167 Right
- 36 Male 18.000 Right
- 38 Male 17.917 Right
- 39 Male 35.500 Right
- 42 Female 17.083 Right
- 44 Female 17.500 Right
- 47 Male 18.917 Right
- 48 Male 19.417 Right
- 49 Female 18.417 Right
- 50 Female 30.750 Right

- 51 Male 18.500 Left
- 52 Male 17.500 Right
- 53 Male 18.333 Right
- 54 Male 17.417 Right
- 55 Male 20.000 Right
- 57 Female 17.167 Right
- 59 Male 17.667 Right
- 61 Male 20.333 Right
- 62 Female 17.333 Right
- 63 Female 17.500 Right
- 65 Female 18.583 Right
- 71 Female 17.583 Right
- 73 Female 17.667 Right
- 74 Female 17.417 Right
- 75 Female 17.750 Right
- 76 Female 20.667 Right
- 77 Female 23.583 Right
- 79 Female 17.083 Right
- 82 Male 20.167 Right
- 85 Male 17.167 Right
- 86 Female 17.250 Right
- 87 Female 18.000 Right
- 88 Female 18.750 Right
- 89 Male 21.583 Right
- 91 Male 19.667 Right
- 93 Female 19.667 Right
- 95 Male 22.833 Right
- 97 Male 19.417 Right
- 98 Female 23.250 Right
- 100 Female 19.083 Right
- 102 Male 17.750 Right

- 104 Female 20.167 Right
- 105 Female 17.667 Right
- 106 Female 18.250 Right
- 109 Male 18.583 Right
- 110 Male 17.750 Right
- 111 Female 24.167 Right
- 112 Male 18.167 Right
- 113 Female 21.167 Right
- 114 Male 17.917 Right
- 115 Female 17.417 Right
- 116 Female 20.500 Right
- 117 Female 22.917 Right
- 118 Male 18.917 Left
- 119 Female 18.917 Left
- 120 Male 20.083 Right
- 122 Male 18.250 Right
- 123 Female 17.500 Right
- 124 Male 17.417 Left
- 125 Male 21.000 Right
- 127 Female 17.667 Right
- 128 Male 18.083 Right
- 129 Female 18.000 Right
- 130 Female 18.333 Right
- 131 Male 20.000 Right
- 132 Male 18.750 Right
- 134 Female 18.500 Left
- 135 Male 18.417 Right
- 136 Male 19.167 Right
- 138 Male 19.333 Right
- 140 Female 18.667 Right
- 141 Female 17.500 Right

- 143 Female 17.250 Right
- 144 Male 19.000 Right
- 145 Female 19.167 Left
- 146 Male 19.000 Right
- 147 Male 23.000 Right
- 148 Male 32.667 Right
- 149 Female 20.000 Right
- 150 Female 20.167 Right
- 151 Male 25.500 Right
- 152 Female 18.167 Right
- 153 Female 23.500 Right
- 154 Male 70.417 Right
- 155 Male 43.833 Right
- 156 Male 23.583 Right
- 158 Female 44.250 Right
- 160 Male 17.917 Right
- 161 Female 18.417 Right
- 163 Male 17.500 Right
- 164 Female 29.083 Right
- 166 Female 18.500 Right
- 167 Female 18.167 Right
- 168 Female 32.750 Right
- 170 Male 17.333 Right
- 172 Male 18.667 Left
- 174 Female 18.667 Right
- 175 Female 17.750 Right
- 176 Female 17.250 Left
- 177 Male 36.583 Right
- 178 Female 23.083 Right
- 180 Female 17.167 Right
- 181 Male 23.417 Right

- 182 Female 17.083 Right
- 183 Female 17.250 Right
- 184 Male 23.833 Right
- 185 Male 18.750 Right
- 186 Male 21.167 Right
- 187 Female 24.667 Right
- 188 Male 18.500 Right
- 189 Male 20.333 Right
- 190 Male 20.083 Right
- 191 Male 18.917 Right
- 192 Male 27.333 Right
- 193 Male 18.917 Right
- 194 Female 17.250 Right
- 196 Female 26.500 Right
- 197 Female 17.000 Right
- 198 Male 17.167 Right
- 199 Female 19.167 Right
- 200 Female 17.500 Right
- 201 Female 19.250 Right
- 202 Male 21.333 Right
- 204 Female 20.167 Right
- 205 Male 18.667 Right
- 206 Female 17.083 Right
- 207 Female 17.417 Right
- 208 Male 18.583 Right
- 209 Male 19.500 Left
- 211 Female 17.167 Right
- 212 Female 17.250 Left
- 214 Male 20.417 Right
- 215 Female 17.083 Right
- 218 Male 19.333 Right

```
220 Male 18.917 Right
```

222 Female 17.333 Right

223 Female 18.167 Right

227 Female 18.417 Right

228 Male 17.417 Right

229 Female 20.333 Right

230 Male 19.333 Right

231 Female 18.167 Right

233 Female 17.667 Right

234 Female 16.917 Right

236 Male 17.167 Right

237 Female 17.750 Right

#6

```
newsurvey%>%
```

filter(W.Hnd=="Left", Sex=="Female")%>%

dplyr::select(Age, Pulse, Wr.Hnd)

Output:

#6

> newsurvey%>%

+ filter(W.Hnd=="Left", Sex=="Female")%>%

+ dplyr::select(Age, Pulse, Wr.Hnd)

Age Pulse Wr.Hnd

1 18.917 100 18.5

2 18.500 80 15.4

3 19.167 68 20.0

4 17.250 104 19.0

5 17.250 83 17.5

#7

arrange(newsurvey, desc(Height))%>%filter(Sex=="Male", W.Hnd=="Left")

Output:

#7

```
> arrange(newsurvey, desc(Height))%>%filter(Sex=="Male", W.Hnd=="Left")

Sex Wr.Hnd NW.Hnd W.Hnd Fold Pulse Clap Exer Smoke Height
```

- 1 Male 22.0 21.5 Left R on L 55 Left Freq Never 200.00
- 2 Male 23.0 22.0 Left L on R 83 Left Some Heavy 193.04
- 3 Male 19.4 19.2 Left R on L 74 Right Some Never 182.88
- 4 Male 20.5 19.5 Left L on R 80 Right Some Occas 182.88
- 5 Male 19.8 20.0 Left L on R 59 Right Freq Never 180.00
- 6 Male 19.5 20.5 Left R on L 104 Left None Regul 177.80
- 7 Male 17.5 17.0 Left L on R 97 Neither None Never 165.00

M.I Age

- 1 Metric 18.500
- 2 Imperial 18.917
- 3 Imperial 18.333
- 4 Imperial 18.667
- 5 Metric 17.417
- 6 Imperial 17.583
- 7 Metric 19.500

#8

mutate(newsurvey, Diff=Wr.Hnd-NW.Hnd)%>% dplyr::select(Sex,Wr.Hnd, NW.Hnd, Diff)

Output:

#8

> mutate(newsurvey, Diff=Wr.Hnd-NW.Hnd)%>%

- + dplyr::select(Sex,Wr.Hnd, NW.Hnd, Diff)
 - Sex Wr.Hnd NW.Hnd Diff
- 1 Female 18.5 18.0 0.5
- 2 Male 19.5 20.5 -1.0
- 3 Male 20.0 20.0 0.0

- 4 Female 18.0 17.7 0.3
- 5 Male 17.7 17.7 0.0
- 6 Female 17.0 17.3 -0.3
- 7 Male 20.0 19.5 0.5
- 8 Male 18.5 18.5 0.0
- 9 Female 17.0 17.2 -0.2
- 10 Female 19.5 20.2 -0.7
- 11 Female 18.0 18.0 0.0
- 12 Male 19.4 19.2 0.2
- 13 Male 21.0 20.9 0.1
- 14 Male 21.5 22.0 -0.5
- 15 Male 20.1 20.7 -0.6
- 16 Male 18.5 18.0 0.5
- 17 Male 21.5 21.2 0.3
- 18 Male 21.0 20.7 0.3
- 19 Male 20.8 21.4 -0.6
- 20 Male 19.5 19.5 0.0
- 21 Male 18.8 18.2 0.6
- 22 Female 17.1 17.5 -0.4
- 23 Male 20.1 20.0 0.1
- 24 Male 22.2 21.0 1.2
- 25 Male 19.4 18.5 0.9
- 26 Male 22.0 22.0 0.0
- 27 Female 17.8 18.0 -0.2
- 28 Female 20.1 20.2 -0.1
- 29 Male 23.2 22.7 0.5
- 30 Male 22.5 23.0 -0.5
- 31 Female 18.0 17.6 0.4
- 32 Female 18.0 17.9 0.1
- 33 Male 22.0 21.5 0.5
- 34 Male 20.5 20.0 0.5

- 35 Male 17.0 18.0 -1.0
- 36 Male 20.5 19.5 1.0
- 37 Male 22.5 22.5 0.0
- 38 Female 15.5 15.4 0.1
- 39 Male 19.5 19.0 0.5
- 40 Male 22.8 23.2 -0.4
- 41 Female 18.5 18.2 0.3
- 42 Female 19.6 19.7 -0.1
- 43 Female 17.3 18.0 -0.7
- 44 Female 18.0 17.5 0.5
- 45 Female 17.0 16.6 0.4
- 46 Female 16.5 17.0 -0.5
- 47 Female 15.6 15.8 -0.2
- 48 Female 17.5 17.5 0.0
- 49 Female 17.0 17.6 -0.6
- 50 Female 18.3 18.5 -0.2
- 51 Male 19.2 18.9 0.3
- 52 Male 23.0 23.5 -0.5
- 53 Female 17.7 17.0 0.7
- 54 Female 18.2 18.0 0.2
- 55 Female 18.3 18.5 -0.2
- 56 Male 18.0 18.0 0.0
- 57 Male 20.5 20.0 0.5
- 58 Female 18.2 17.5 0.7
- 59 Male 21.3 20.8 0.5
- 60 Male 20.0 19.5 0.5
- 61 Female 17.5 17.5 0.0
- 62 Female 19.4 19.6 -0.2
- 63 Male 18.9 19.1 -0.2
- 64 Female 17.5 17.3 0.2
- 65 Female 17.5 17.0 0.5

- 66 Female 19.5 18.5 1.0
- 67 Male 17.5 17.5 0.0
- 68 Male 19.7 20.1 -0.4
- 69 Female 18.5 18.5 0.0
- 70 Male 19.2 19.6 -0.4
- 71 Female 17.2 16.7 0.5
- 72 Male 20.5 21.0 -0.5
- 73 Female 16.0 15.5 0.5
- 74 Female 16.9 16.0 0.9
- 75 Female 17.0 16.7 0.3
- 76 Male 23.0 22.0 1.0
- 77 Female 18.5 18.0 0.5
- 78 Male 21.0 20.4 0.6
- 79 Male 22.5 22.5 0.0
- 80 Female 18.5 18.0 0.5
- 81 Male 19.8 20.0 -0.2
- 82 Male 18.5 18.1 0.4
- 83 Female 16.0 16.0 0.0
- 84 Male 18.8 19.1 -0.3
- 85 Female 17.5 17.0 0.5
- 86 Female 16.4 16.5 -0.1
- 87 Male 22.0 21.5 0.5
- 88 Male 19.0 19.5 -0.5
- 89 Female 15.4 16.4 -1.0
- 90 Male 17.9 17.8 0.1
- 91 Male 23.1 22.5 0.6
- 92 Male 22.0 22.0 0.0
- 93 Female 19.5 18.5 1.0
- 94 Female 18.0 18.6 -0.6
- 95 Female 19.0 18.8 0.2
- 96 Male 21.4 21.0 0.4

- 97 Female 20.0 19.5 0.5
- 98 Male 18.5 18.5 0.0
- 99 Male 22.5 22.6 -0.1
- 100 Male 19.5 20.2 -0.7
- 101 Female 18.0 18.0 0.0
- 102 Female 18.0 18.5 -0.5
- 103 Male 21.8 22.3 -0.5
- 104 Female 13.0 12.5 0.5
- 105 Female 16.3 16.2 0.1
- 106 Male 21.5 21.6 -0.1
- 107 Male 18.9 19.1 -0.2
- 108 Male 20.5 20.0 0.5
- 109 Female 18.9 19.2 -0.3
- 110 Male 18.5 19.0 -0.5
- 111 Female 17.5 17.1 0.4
- 112 Male 20.2 20.3 -0.1
- 113 Female 16.5 16.9 -0.4
- 114 Female 17.6 17.2 0.4
- 115 Female 19.5 19.2 0.3
- 116 Female 16.5 15.0 1.5
- 117 Male 19.0 18.5 0.5
- 118 Male 20.5 19.5 1.0
- 119 Female 18.0 17.5 0.5
- 120 Female 17.5 18.0 -0.5
- 121 Female 19.0 18.5 0.5
- 122 Male 20.5 20.5 0.0
- 123 Female 16.7 17.0 -0.3
- 124 Female 17.0 16.5 0.5
- 125 Male 19.0 19.5 -0.5
- 126 Female 14.0 13.5 0.5
- 127 Female 17.5 17.6 -0.1

- 128 Male 18.5 19.0 -0.5
- 129 Male 18.0 18.5 -0.5
- 130 Male 20.5 20.7 -0.2
- 131 Female 17.0 17.0 0.0
- 132 Male 18.5 18.5 0.0
- 133 Male 18.0 18.5 0.5
- 134 Male 18.5 18.0 0.5
- 135 Male 20.0 19.5 0.5
- 136 Male 22.0 22.5 -0.5
- 137 Male 17.9 18.4 -0.5
- 138 Female 17.6 17.8 -0.2
- 139 Female 17.0 17.6 -0.6
- 140 Female 15.0 13.0 2.0
- 141 Male 16.0 15.5 0.5
- 142 Female 19.1 19.0 0.1
- 143 Female 17.5 16.5 1.0
- 144 Female 16.2 15.8 0.4
- 145 Male 21.0 21.0 0.0
- 146 Female 18.5 18.0 0.5
- 147 Male 17.0 17.5 -0.5
- 148 Female 17.5 17.0 0.5
- 149 Female 17.5 17.6 -0.1
- 150 Male 17.5 17.6 -0.1
- 151 Male 17.5 17.0 0.5
- 152 Female 18.6 18.6 0.0
- 153 Female 17.5 17.5 0.0
- 154 Male 17.0 17.5 -0.5
- 155 Female 18.0 17.8 0.2
- 156 Male 18.2 19.8 -1.6
- 157 Male 23.2 23.2 0.0
- 158 Female 15.9 16.5 -0.6

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159 Female 17.5 18.4 -0.9
160 Female 18.8 18.3 0.5
161 Male 20.0 19.8 0.2
162 Female 18.6 18.8 -0.2
163 Male 18.6 19.6 -1.0
164 Female 18.8 18.5 0.3
165 Female 18.0 18.0 0.0
166 Female 18.5 18.0 0.5
167 Male 21.0 21.5 -0.5
168 Female 17.6 17.3 0.3
#9
newsurvey%>%
filter(W.Hnd=="Left")%>%
group_by(Sex)%>%
summarise(mean(Wr.Hnd))
Output:
> #9
> newsurvey%>%
+ filter(W.Hnd=="Left")%>%
+ group_by(Sex)%>%
+ summarise(mean(Wr.Hnd))
`summarise()` ungrouping output (override with `.groups` argument)
# A tibble: 2 x 2
Sex `mean(Wr.Hnd)`
<fct>
          <dbl>
1 Female
             18.1
2 Male
            20.2
```

#10

newsurvey%>%

```
filter(Sex=="Male")%>%
group_by(W.Hnd)%>%
summarise(max(Pulse))
Output:
#10
> newsurvey%>%
+ filter(Sex=="Male")%>%
+ group_by(W.Hnd)%>%
+ summarise(max(Pulse))
`summarise()` ungrouping output (override with `.groups` argument)
# A tibble: 2 x 2
W.Hnd `max(Pulse)`
<fct>
         <int>
1 Left
          104
```

2 Right

100