title: "RWorksheet2"

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output: pdf_document

R Markdown

```
#1.A
 a<- c(-5:5)
 a
```

```
##  [1] -5 -4 -3 -2 -1  0  1  2  3  4  5
```

```
#1.B
 x <- c(1:7)
 x
```

```
## [1] 1 2 3 4 5 6 7
```

```
#2.A
 b<- seq(1,3,by = 0.2)
 b
```

```
##  [1] 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0
```

```
#3
 d <- c(34,28,22,36,27,18,52,39,42,29,35,31,27,22,37,
            34,19,20,57,49,50,37,46,25,17,37,43,53,41,51,
            35,24,33,41,53,40,18,44,38,41,48,27,39,19,30,
            61,54,58,26,18)
 d
```

```
##  [1] 34 28 22 36 27 18 52 39 42 29 35 31 27 22 37 34 19 20 57 49 50 37 46 25 17
## [26] 37 43 53 41 51 35 24 33 41 53 40 18 44 38 41 48 27 39 19 30 61 54 58 26 18
```

```
#3.A
 d[3]
```

```
## [1] 22
```

```
#3.B
 d[2]
```

```
## [1] 28
```

```
 d[4]
```

```
## [1] 36
```

```
#3.C
 d[2:50]
```

```
##  [1] 28 22 36 27 18 52 39 42 29 35 31 27 22 37 34 19 20 57 49 50 37 46 25 17 37
## [26] 43 53 41 51 35 24 33 41 53 40 18 44 38 41 48 27 39 19 30 61 54 58 26 18
```

```
#4
 n <- c("first"=3, "second"=0, "third"=9)
 n
```

```
##  first second  third
```

```
##      3      0      9
```

```
#4.A
 n [c("first", "third")]
```

```
## first third
##     3     9
```

```
#5
 x <- c(-3:2)
 x
```

```
## [1] -3 -2 -1  0  1  2
```

```
#5.A
 x[2] <- 0
 x
```

```
## [1] -3  0 -1  0  1  2
```

```
#6.A
 Month = c("Jan","Feb","March","Apr","May","June")
 Php <- c(52.20,57.25,60.00,65.00,74.25,54.00)
 Liters <- c(25,30,40,50,10,45)

 Diesel_fuel <- data.frame (Month, Php, Liters)
 Diesel_fuel
```

```
##   Month   Php Liters
## 1   Jan 52.20     25
## 2   Feb 57.25     30
## 3 March 60.00     40
## 4   Apr 65.00     50
## 5   May 74.25     10
## 6  June 54.00     45
```

```
#6.B
  weighted.mean(Php)
```

```
## [1] 60.45
```

```
#7.A
  data <- c(length(rivers), sum(rivers), mean(rivers),
            median(rivers), var(rivers), sd(rivers),
            min(rivers), max(rivers))
  data
```

```
## [1]    141.0000  83357.0000    591.1844    425.0000 243908.4086    493.8708
## [7]    135.0000   3710.0000
```

```
#7.B
  #rivers
    rivers
```

```
##   [1]  735  320  325  392  524  450 1459  135  465  600  330  336  280  315  870
##  [16]  906  202  329  290 1000  600  505 1450  840 1243  890  350  407  286  280
##  [31]  525  720  390  250  327  230  265  850  210  630  260  230  360  730  600
##  [46]  306  390  420  291  710  340  217  281  352  259  250  470  680  570  350
##  [61]  300  560  900  625  332 2348 1171 3710 2315 2533  780  280  410  460  260
##  [76]  255  431  350  760  618  338  981 1306  500  696  605  250  411 1054  735
```

```
##  [91]  233  435  490  310  460  383  375 1270  545  445 1885  380  300  380  377
## [106]  425  276  210  800  420  350  360  538 1100 1205  314  237  610  360  540
## [121] 1038  424  310  300  444  301  268  620  215  652  900  525  246  360  529
## [136]  500  720  270  430  671 1770
```

```
#7.C
  #data
    data
```

```
## [1]    141.0000  83357.0000    591.1844    425.0000 243908.4086    493.8708
## [7]    135.0000   3710.0000
```

```
#8.A
    Power_Ranking <- c(1:25)
    Celebrity_Name = c("Tom Cruise", "Rolling Stones",
                       "Oprah Winfrey", "U2", "Tiger Woods",
                       "Steven Speilberg", "Howard Stern",
                       "50 Cent", "Cast of the Sopranos",
                       "Dan Brown", "Bruce Springsteen",
                       "Donald Trump", "Muhammad Ali",
                       "Paul Mcartney", "George Lucas",
                       "Elton John", "David Letterman",
                       "Phil Mickelson", "J.K Rowling",
                       "Bradd Pitt", "Peter Jackson",
                       "Dr. Phil McGraw", "Ja Lenon",
                       "Celine Dion", "Kobe Bryant")
    Pay <- c(67,90,225,110,90,332,302,41,52,88,55,44,55,40,
             233,34,40,47,75,25,39,45,32,40,31)
    Celebrities_pay <- data.frame( Power_Ranking, Celebrity_Name,
                                   Pay)
    Celebrities_pay
```

```
##    Power_Ranking       Celebrity_Name Pay
## 1              1          Tom Cruise  67
## 2              2       Rolling Stones  90
## 3              3        Oprah Winfrey 225
## 4              4                   U2 110
## 5              5          Tiger Woods  90
## 6              6     Steven Speilberg 332
## 7              7         Howard Stern 302
## 8              8              50 Cent  41
## 9              9 Cast of the Sopranos  52
## 10            10           Dan Brown  88
## 11            11    Bruce Springsteen  55
## 12            12         Donald Trump  44
## 13            13         Muhammad Ali  55
## 14            14        Paul Mcartney  40
## 15            15         George Lucas 233
## 16            16           Elton John  34
## 17            17      David Letterman  40
## 18            18       Phil Mickelson  47
## 19            19          J.K Rowling  75
## 20            20           Bradd Pitt  25
## 21            21        Peter Jackson  39
## 22            22      Dr. Phil McGraw  45
## 23            23             Ja Lenon  32
```

```
## 24            24          Celine Dion  40
## 25            25          Kobe Bryant  31
```

```
#8.B
    Celebrities_pay <- data.frame( Power_Ranking, Celebrity_Name,
                                   Pay)
     Celebrities_pay[Celebrities_pay == 19] <-15
     Celebrities_pay[Celebrities_pay ==75] <-90
     Celebrities_pay
```

```
##    Power_Ranking       Celebrity_Name Pay
## 1              1           Tom Cruise  67
## 2              2       Rolling Stones  90
## 3              3        Oprah Winfrey 225
## 4              4                   U2 110
## 5              5          Tiger Woods  90
## 6              6     Steven Speilberg 332
## 7              7         Howard Stern 302
## 8              8              50 Cent  41
## 9              9 Cast of the Sopranos  52
## 10            10            Dan Brown  88
## 11            11    Bruce Springsteen  55
## 12            12         Donald Trump  44
## 13            13         Muhammad Ali  55
## 14            14        Paul Mcartney  40
## 15            15         George Lucas 233
## 16            16           Elton John  34
## 17            17      David Letterman  40
## 18            18       Phil Mickelson  47
## 19            15          J.K Rowling  90
## 20            20           Bradd Pitt  25
## 21            21        Peter Jackson  39
## 22            22      Dr. Phil McGraw  45
## 23            23             Ja Lenon  32
## 24            24          Celine Dion  40
## 25            25          Kobe Bryant  31
```

```
#8.C
 Celebrities_pay <- data.frame( Power_Ranking, Celebrity_Name,
                                Pay)
   Celebrities_pay
```

```
##    Power_Ranking       Celebrity_Name Pay
## 1              1           Tom Cruise  67
## 2              2       Rolling Stones  90
## 3              3        Oprah Winfrey 225
## 4              4                   U2 110
## 5              5          Tiger Woods  90
## 6              6     Steven Speilberg 332
## 7              7         Howard Stern 302
## 8              8              50 Cent  41
## 9              9 Cast of the Sopranos  52
## 10            10            Dan Brown  88
## 11            11    Bruce Springsteen  55
## 12            12         Donald Trump  44
## 13            13         Muhammad Ali  55
```

```
## 14           14        Paul Mcartney  40
## 15           15         George Lucas 233
## 16           16           Elton John  34
## 17           17      David Letterman  40
## 18           18       Phil Mickelson  47
## 19           19          J.K Rowling  75
## 20           20           Bradd Pitt  25
## 21           21        Peter Jackson  39
## 22           22      Dr. Phil McGraw  45
## 23           23              Ja Lenon  32
## 24           24          Celine Dion  40
## 25           25          Kobe Bryant  31
```