RWorksheet2

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R Markdown

```
num <- seq(-5:5)
num
```

```
##  [1]  1  2  3  4  5  6  7  8  9 10 11
```

```
x<- 1:7
x
```

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

```
l <- seq(1,3, by=0.2)
l
```

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

```
      cenlist <- 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)
      cenlist
```

```
##  [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
```

```
cenlist [3]
```

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

```
cenlist [2]
```

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

```
cenlist [4]
```

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

```r
cenlist[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
```

```r
names <- c("first"=3, "second"=3, "third"=9)
names
```

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

```r
names[c("first", "third")]
```

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

```r
x <- -3:2
x
```

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

```r
Month = c("Jan", "Feb", "March","April", "May","June")
Price_per_liter<- c(52.50, 57.25, 60.00, 65.00, 74.25, 54.00)
Quantity <- c(25, 30, 40, 50, 10, 45)
```

```r
Diesel<- data.frame (Month, Price_per_liter, Quantity)
Diesel
```

```
##   Month Price_per_liter Quantity
## 1   Jan           52.50       25
## 2   Feb           57.25       30
## 3 March           60.00       40
## 4 April           65.00       50
## 5   May           74.25       10
## 6  June           54.00       45
```

```r
weighted.mean(Price_per_liter,Quantity)
```

```
## [1] 59.2625
```

```r
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
```

```
power_celeb <- 1:25
celeb_name <- c("Tom Cruise","Rolling Stones", "Oprah Winfrey","U2","Tiger Woods",
                  "Steven Spielberg","Howarf Stern","50 Cent","Cast of the Sopranos","Dan Brown",
                  "Bruce Springsteen", "Donald Trump","Muhammand Ali","Paul McCartney","George Lucas",
                  "Elton John","David Letterman","Phil Mickelson", "J.K Rowling","Bradd Pitt",
                  "Peter Jackson","Dr.Phil McGraw","Jay Lenon","Celine Dion","Kobe Bryan")
celeb_name
```

```
##  [1] "Tom Cruise"           "Rolling Stones"       "Oprah Winfrey"
##  [4] "U2"                   "Tiger Woods"          "Steven Spielberg"
##  [7] "Howarf Stern"         "50 Cent"              "Cast of the Sopranos"
## [10] "Dan Brown"            "Bruce Springsteen"    "Donald Trump"
## [13] "Muhammand Ali"        "Paul McCartney"       "George Lucas"
## [16] "Elton John"           "David Letterman"      "Phil Mickelson"
## [19] "J.K Rowling"          "Bradd Pitt"           "Peter Jackson"
## [22] "Dr.Phil McGraw"       "Jay Lenon"            "Celine Dion"
## [25] "Kobe Bryan"
```

```
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)

Pay
```

```
##  [1]  67  90 225 110  90 332 302  41  52  88  55  44  55  40 233  34  40  47  75
## [20]  25  39  45  32  40  31
```

```
CelebrityAnnualPay <- data.frame(power_celeb,celeb_name,Pay)
CelebrityAnnualPay
```

```
##    power_celeb           celeb_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 Spielberg 332
## 7            7         Howarf 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        Muhammand Ali  55
## 14          14       Paul McCartney  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            Jay Lenon  32
```

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

```
CelebrityAnnualPay [19, "power_celeb"] = 15
CelebrityAnnualPay[19, "Pay"] = 90
CelebrityAnnualPay
```

```
##    power_celeb           celeb_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 Spielberg 332
## 7            7         Howarf 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        Muhammand Ali  55
## 14          14       Paul McCartney  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            Jay Lenon  32
## 24          24          Celine Dion  40
## 25          25           Kobe Bryan  31
```