

Q7.R

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```
ratings <- c("9","2","5","8","6","1","3","2","8","4","6","8","7","1","2","6","10","5","6","9","6","2","")
```

```
(frequency7 <- table(ratings))
```

```
## ratings
```

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

```
## 2 1 4 1 2 2 5 2 3 2
```

```
data_fre <- frequency7[1]
```

```
data7 <- data.frame(frequency7)
```

```
colnames(data7) <- c("Valid","Frequency")
```

```
data7$Percentage <- data7$Freq/sum(data7$Freq)*100
```

```
data7$Percentage <- round(data7$Percentage, digits = 2)
```

```
data7$ValidPerent <- data7$Percentage
```

```
data7$CumilativePercentage <- cumsum(data7$Percentage)
```

```
colnames(data7) <- c("Valid","Frequency","Percentage","Valid Percent","Cumilative Percent")
```

```
newRow <- c("Total",sum(data7$Frequency),100,100,NA)
```

```
data7 <- rbind(data7,newRow)
```

```
## Warning in `[<-factor`(`*tmp*`, ri, value = "Total"): invalid factor level, NA
```

```
## generated
```

```
data7
```

```
##      Valid Frequency Percentage Valid Percent Cumulative Percent
## 1         1          2       8.33         8.33         8.33
## 2        10          1       4.17         4.17        12.5
## 3         2          4      16.67        16.67        29.17
## 4         3          1       4.17         4.17        33.34
## 5         4          2       8.33         8.33        41.67
## 6         5          2       8.33         8.33         50
## 7         6          5      20.83        20.83        70.83
## 8         7          2       8.33         8.33        79.16
## 9         8          3      12.5         12.5        91.66
## 10        9          2       8.33         8.33        99.99
```

```
## 11 <NA>      24      100      100      <NA>
# Ordering 10 in correct position
valid <- c(1:10)
frequency <- c(2,4,1,2,2,5,2,3,2,1)

data <- data.frame(valid, frequency)

data$Percentage <- data$frequency/sum(data$frequency)*100

data$Percentage <- round(data$Percentage, digits = 2)

data$ValidPerent <- data$Percentage

data$CumilativePercentage <- cumsum(data$Percentage)

colnames(data) <- c("Valid", "Frequency", "Percentage", "Valid Percent", "Cumilative Percent")

data$Valid <- as.character(data$Valid)

newRow <- c("Total", sum(data$Frequency), 100, 100, NA)

data <- rbind(data, newRow)

data
```

##	Valid	Frequency	Percentage	Valid Percent	Cumilative Percent
## 1	1	2	8.33	8.33	8.33
## 2	2	4	16.67	16.67	25
## 3	3	1	4.17	4.17	29.17
## 4	4	2	8.33	8.33	37.5
## 5	5	2	8.33	8.33	45.83
## 6	6	5	20.83	20.83	66.66
## 7	7	2	8.33	8.33	74.99
## 8	8	3	12.5	12.5	87.49
## 9	9	2	8.33	8.33	95.82
## 10	10	1	4.17	4.17	99.99
## 11	Total	24	100	100	<NA>