

**1.**

```
age <- 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, 42, 53, 41, 51, 35, 24, 33, 41)
```

```
length_age <- length(age) print(length_age)
```

**2.**

```
reciprocal_age <- 1 / age print(reciprocal_age)
```

**3.**

```
new_age <- c(age, 0, age) print(new_age)
```

**4.**

```
sorted_age <- sort(age) print(sorted_age)
```

**5.**

```
min_age <- min(age) max_age <- max(age) print(min_age) print(max_age)
```

**6.**

```
data <- c(2.4, 2.8, 2.1, 2.5, 2.4, 2.2, 2.5, 2.3, 2.5, 2.3, 2.4, 2.7)
```

```
length_data <- length(data) print(length_data)
```

**7.**

```
double_data <- data * 2 print(double_data)
```

**8.1**

```
seq_1_to_100 <- seq(1, 100) print (seq_1_to_100)
```

**8.2**

```
seq_20_to_60 <- seq(20, 60) print (seq_20_to_60)
```

**8.3**

```
mean_20_to_60 <- mean(20:60) print (mean_20_to_60)
```

**8.4**

```
sum_51_to_91 <- sum(51:91) print (sum_51_to_91)
```

## 8.5

```
seq_1 <- seq(1, 1000) print (seq_1)
```

## 8.b

```
data_points <- length(seq_1_to_100) + length(seq_20_to_60) + length(mean_20_to_60 ) + length  
(sum_51_to_91) print(data_points)
```

## 8.c

```
max_until_10 <- max(seq_1_to_1000[1:10]) print(max_until_10)
```

## 9.

```
filtered_numbers <- Filter(function(i) { all(i %% c(3, 5, 7) != 0) }, seq(100)) print(filtered_numbers)
```

## 10.

```
seq_backwards <- seq(100, 1) print(seq_backwards)
```

## 11.

```
multiples_3_or_5 <- seq(1, 24)[seq(1, 24) %% 3 == 0 | seq(1, 24) %% 5 == 0] sum_multiples <-  
sum(multiples_3_or_5) print(multiples_3_or_5) print(sum_multiples)
```

```
total_data_points <- length(seq_backwards) + length(multiples_3_or_5) + length(sum_multiples)  
print(total_data_points)
```

## 12.

```
x <- {0 + x + 5 + }
```

## 13.

```
score <- c(72, 86, 92, 63, 88, 89, 91, 92, 75, 75, 77)
```

```
x2 <- score[2] x3 <- score[3] print(x2) print(x3)
```

## 14.

```
a <- c(1,2,999,4,999,6,7) print(a, na.print = "-999")
```

## 15.

```
name =readline(prompt="Inputyourname:") age =readline(prompt="Inputyourage:") print(paste("Mynameis",name,"andIam",  
print(R.version.string)
```