```
> source("~/R program/R PROGRAM/Temp.R")

Average temperature for City A: 22.42857

Average temperature for City B: 19.28571

Average temperature for City C: 31.85714

City with the highest average temperature: City C

Highest average temperature value: 31.85714

Variance in temperature for City A: 2.952381

Variance in temperature for City B: 1.238095

Variance in temperature for City C: 1.809524

For City A, maximum temperature is 25 on Day 2

For City B, maximum temperature is 21 on Day 4

For City C, maximum temperature is 34 on Day 5
```

```
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                                                                                        Temp.R ×
  1 city_A <- c(22, 25, 21, 23, 24, 22, 20)
2 city_B <- c(18, 20, 19, 21, 20, 19, 18)
     3
        city_C <- c(30, 32, 31, 33, 34, 32, 31)
     4
     5
        avg_A <- mean(city_A)
        avg_B <- mean(city_B)</pre>
     7
         avg_C <- mean(city_C)</pre>
     8
        cat("Average temperature for City A:", avg_A, "\n")
cat("Average temperature for City B:", avg_B, "\n")
cat("Average temperature for City C:", avg_C, "\n")
     9
    10
    11
    12
        avg_temps <- c(avg_A, avg_B, avg_C)</pre>
    13
        cities <- c("City A", "City B", "City C")
    14
         max_avg_temp_city <- cities[which.max(avg_temps)]</pre>
    15
    16
         max_avg_temp_value <- max(avg_temps)</pre>
    17
        cat("City with the highest average temperature:", max_avg_temp_city, "\n")
    18
    19
         cat("Highest average temperature value:", max_avg_temp_value, "\n")
    20
    21
        var_A <- var(city_A)</pre>
    22
         var_B <- var(city_B)</pre>
    23
         var_C <- var(city_C)</pre>
    24
         cat("Variance in temperature for City A:", var_A, "\n")
cat("Variance in temperature for City B:", var_B, "\n")
cat("Variance in temperature for City C:", var_C, "\n")
    25
    26
    27
    28
    29
         max_temp_day_A <- which.max(city_A)</pre>
         max_temp_day_B <- which.max(city_B)</pre>
    30
    31
         max_temp_day_C <- which.max(city_C)</pre>
    32
    33
        max_temp_A <- city_A[max_temp_day_A]</pre>
    34
         max_temp_B <- city_B[max_temp_day_B]</pre>
    35
         max_temp_C <- city_C[max_temp_day_C]</pre>
    36
         cat("For City A, maximum temperature is", max_temp_A, "on Day", max_temp_day_A, "\n")
cat("For City B, maximum temperature is", max_temp_B, "on Day", max_temp_day_B, "\n")
cat("For City C, maximum temperature is", max_temp_C, "on Day", max_temp_day_C, "\n")
    37
    38
    39
    40
```

RStudio