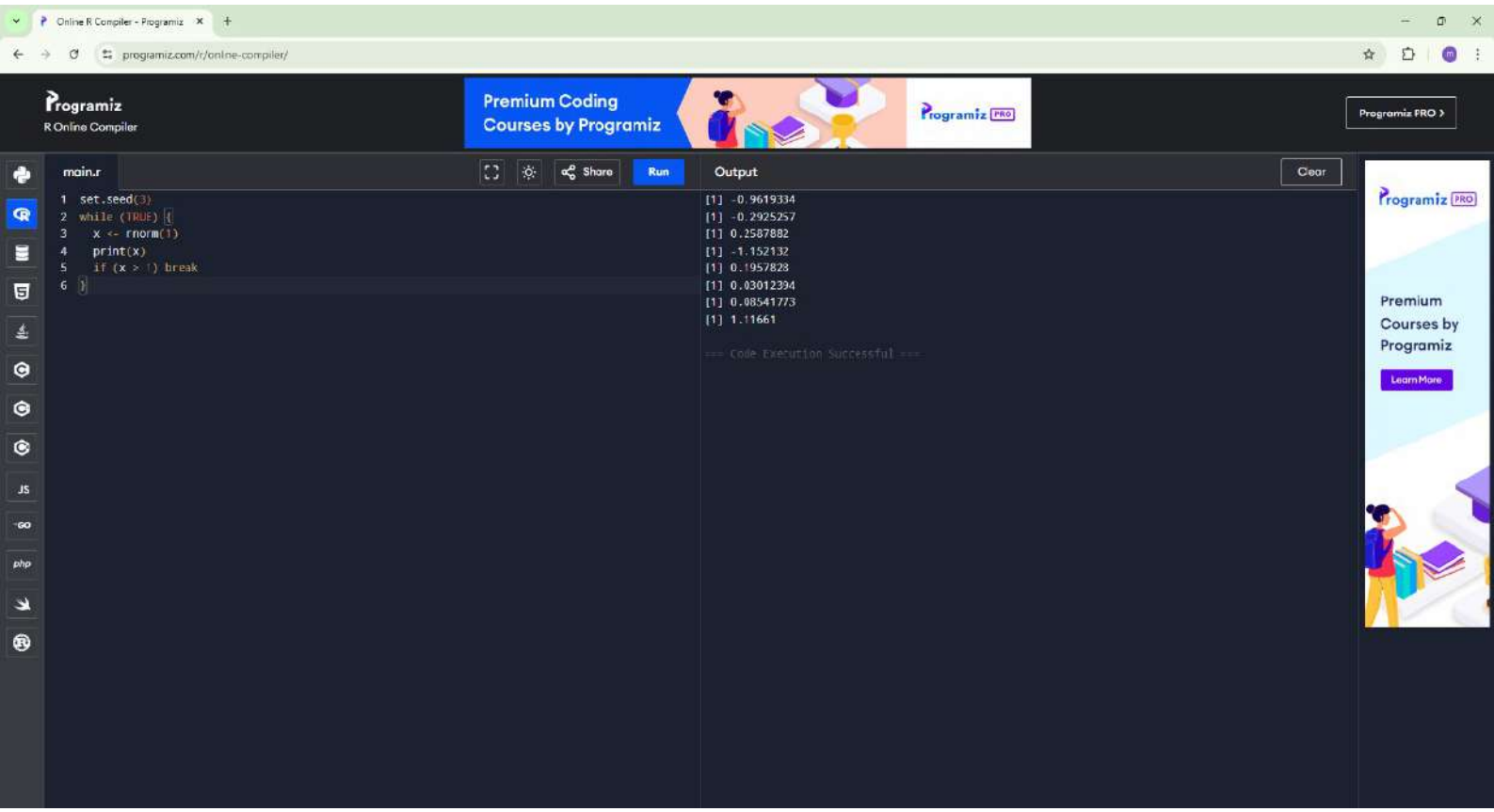
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main.r
Share
Run
Output
Clear
1 set.seed(3)
2 while (TRUE) {
3 x <- rnorm(1)
4 print(x)
5 if (x > 1) break
6 }
[1] -0.9619334
[1] -0.2925257
[1] 0.2587882
[1] -1.152132
[1] 0.1957828
[1] 0.03012394
[1] 0.08541773
[1] 1.11661
=== Code Execution Successful ===
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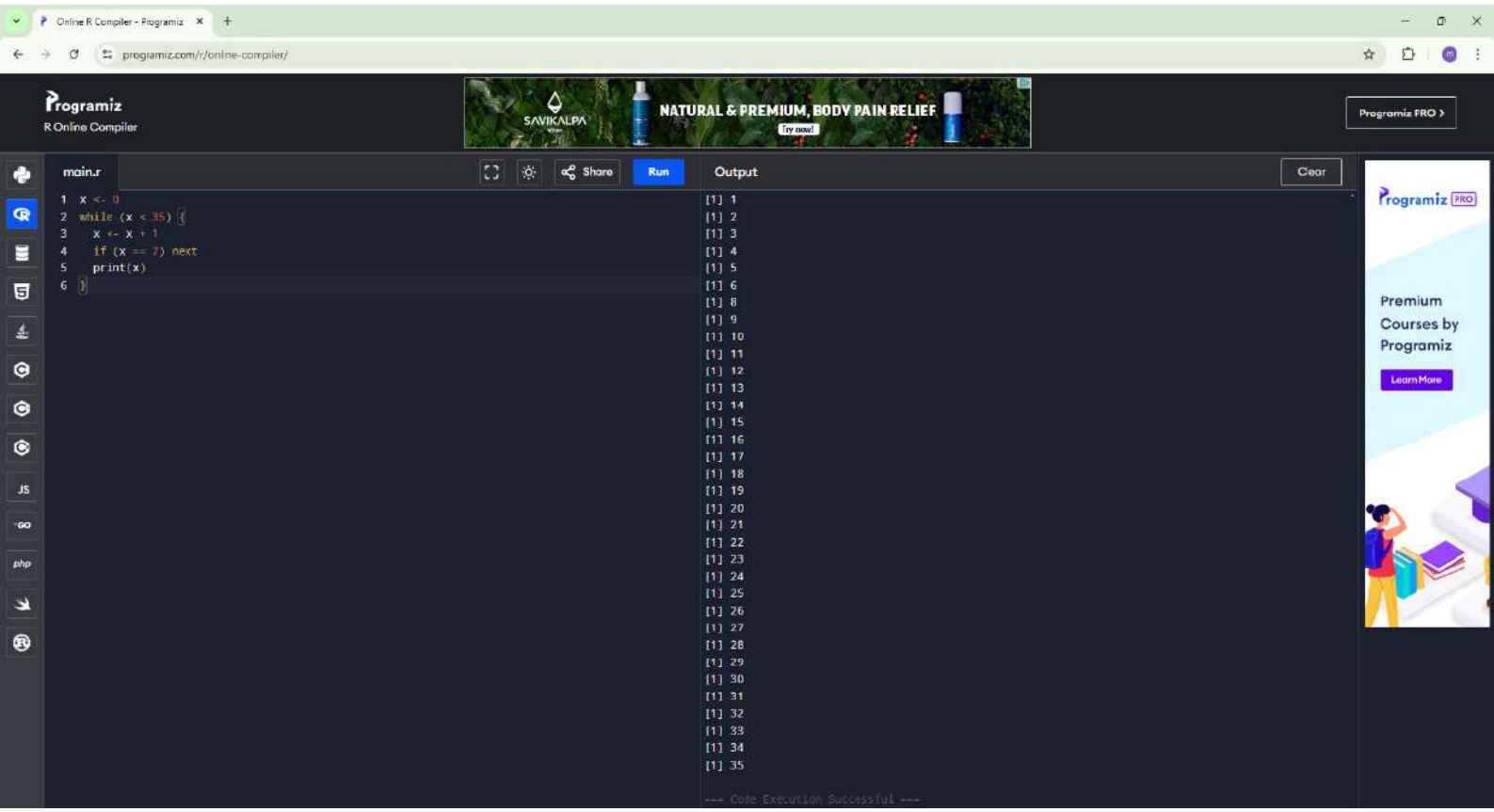
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Output
Clear
1 x <- 0
2 while (x < 35) {
3 x <- x + 1
4 if (x == 7) next
5 print(x)
6 }
[1] 1
[1] 2
[1] 3
[1] 4
[1] 5
[1] 6
[1] 8
[1] 9
[1] 10
[1] 11
[1] 12
[1] 13
[1] 14
[1] 15
[1] 16
[1] 17
[1] 18
[1] 19
[1] 20
[1] 21
[1] 22
[1] 23
[1] 24
[1] 25
[1] 26
[1] 27
[1] 28
[1] 29
[1] 30
[1] 31
[1] 32
[1] 33
[1] 34
[1] 35
--- Code Execution Successful ---
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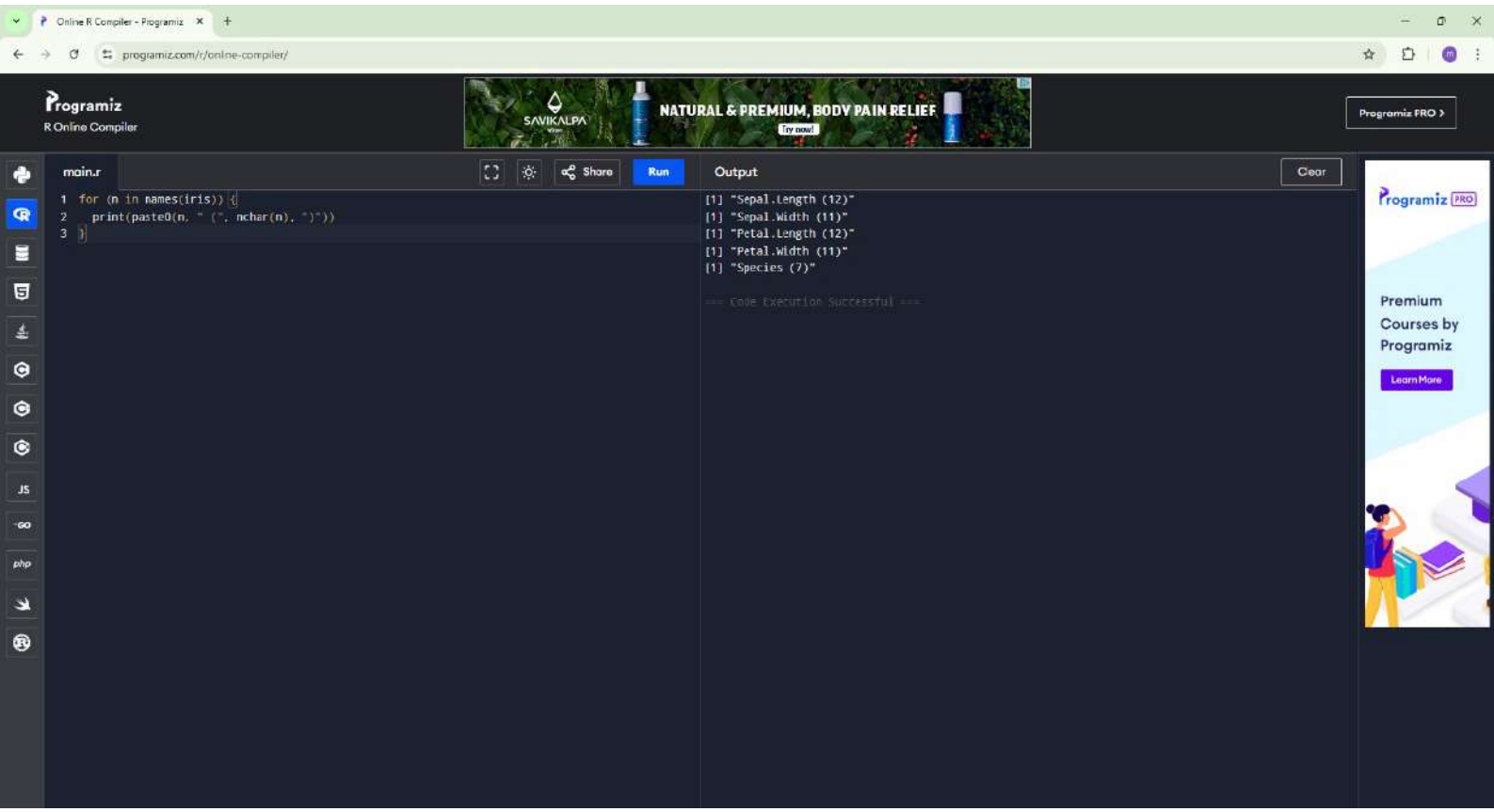
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Output
Clear
1 for (n in names(iris)) {
2 print(paste0(n, " (", nchar(n), ")"))
3 }
[1] "Sepal.Length (12)"
[1] "Sepal.Width (11)"
[1] "Petal.Length (12)"
[1] "Petal.Width (11)"
[1] "Species (7)"
=== Code Execution Successful ===
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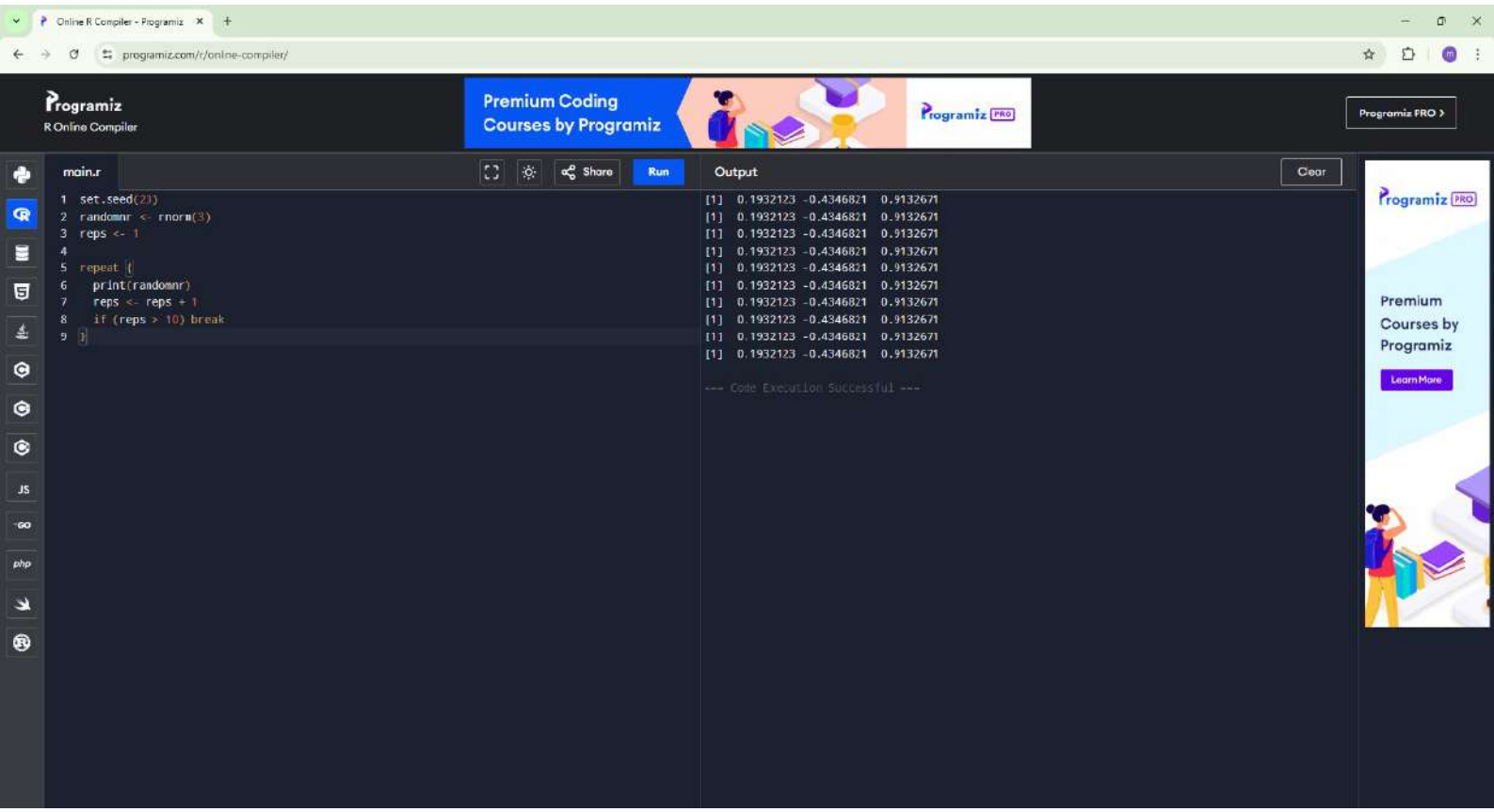
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Run
Output
Clear
1 set.seed(21)
2 randomnr <- rnorm(3)
3 reps <- 1
4
5 repeat {
6 print(randomnr)
7 reps <- reps + 1
8 if (reps > 10) break
9 }
[1] 0.1932123 -0.4346821 0.9132671
[1] 0.1932123 -0.4346821 0.9132671
[1] 0.1932123 -0.4346821 0.9132671
[1] 0.1932123 -0.4346821 0.9132671
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[1] 0.1932123 -0.4346821 0.9132671
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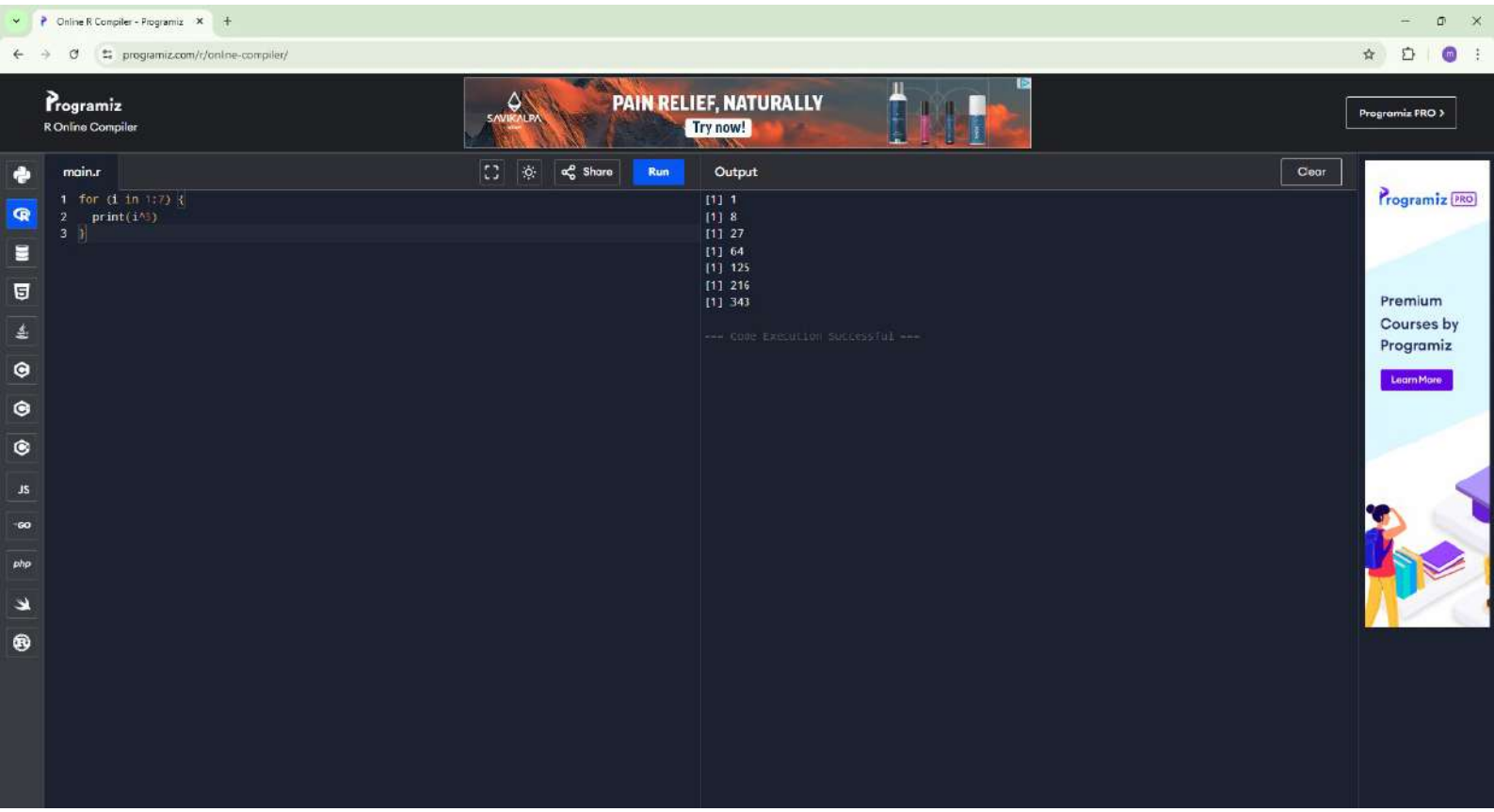
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Output
Clear
1 for (i in 1:7) {
2 print(i^3)
3 }
[1] 1
[1] 8
[1] 27
[1] 64
[1] 125
[1] 216
[1] 343
--- Code Execution Successful ---
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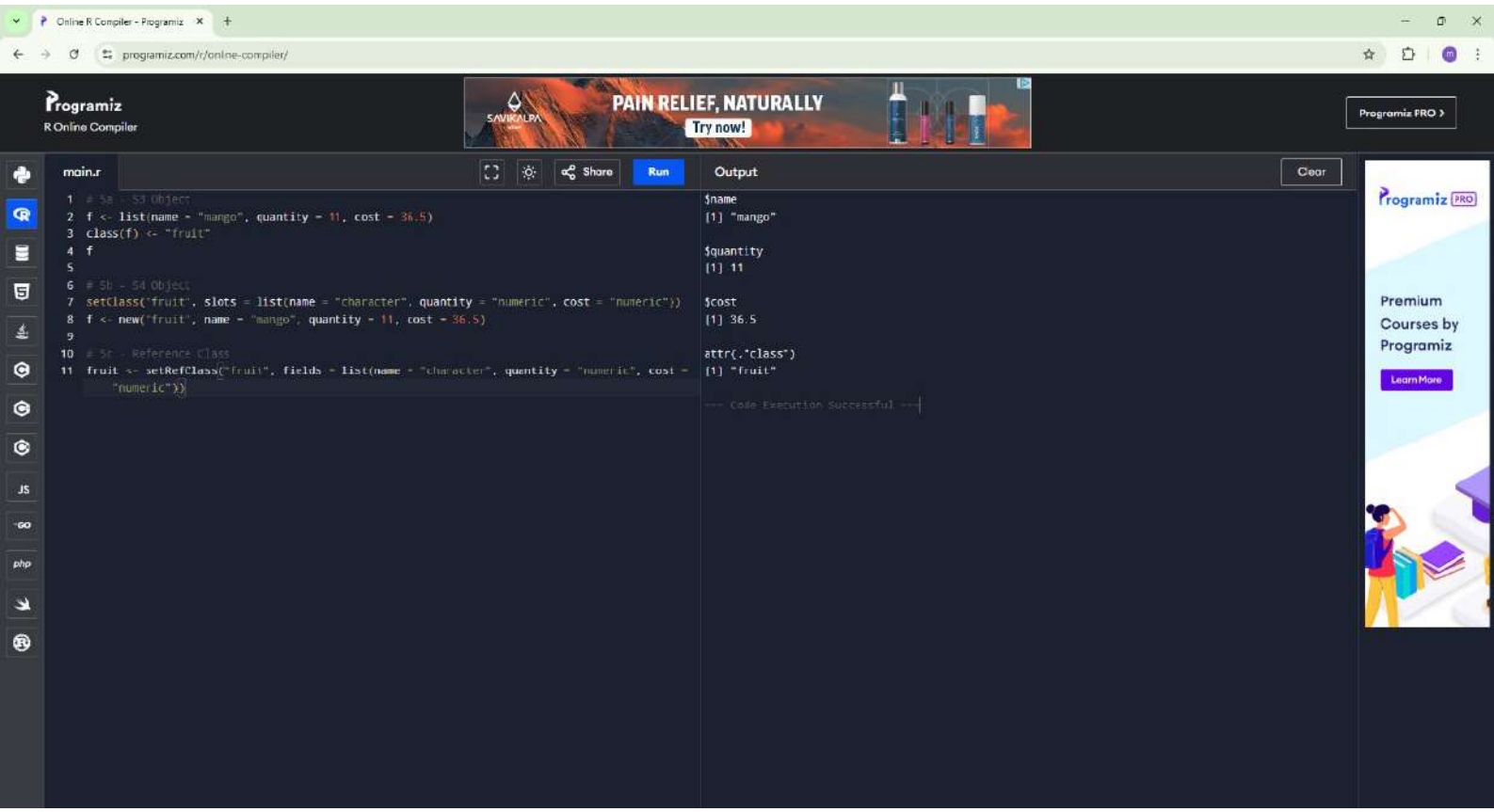
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Output
Clear
# 5a - S3 Object
f <- list(name = "mango", quantity = 11, cost = 36.5)
class(f) <- "fruit"
f
# 5b - S4 Object
setClass("fruit", slots = list(name = "character", quantity = "numeric", cost = "numeric"))
f <- new("fruit", name = "mango", quantity = 11, cost = 36.5)
# 5c - Reference Class
fruit <- setRefClass("fruit", fields = list(name = "character", quantity = "numeric", cost = "numeric"))
$name
[1] "mango"
$quantity
[1] 11
$cost
[1] 36.5
attr(,"class")
[1] "fruit"
--- Code Execution Successful ---
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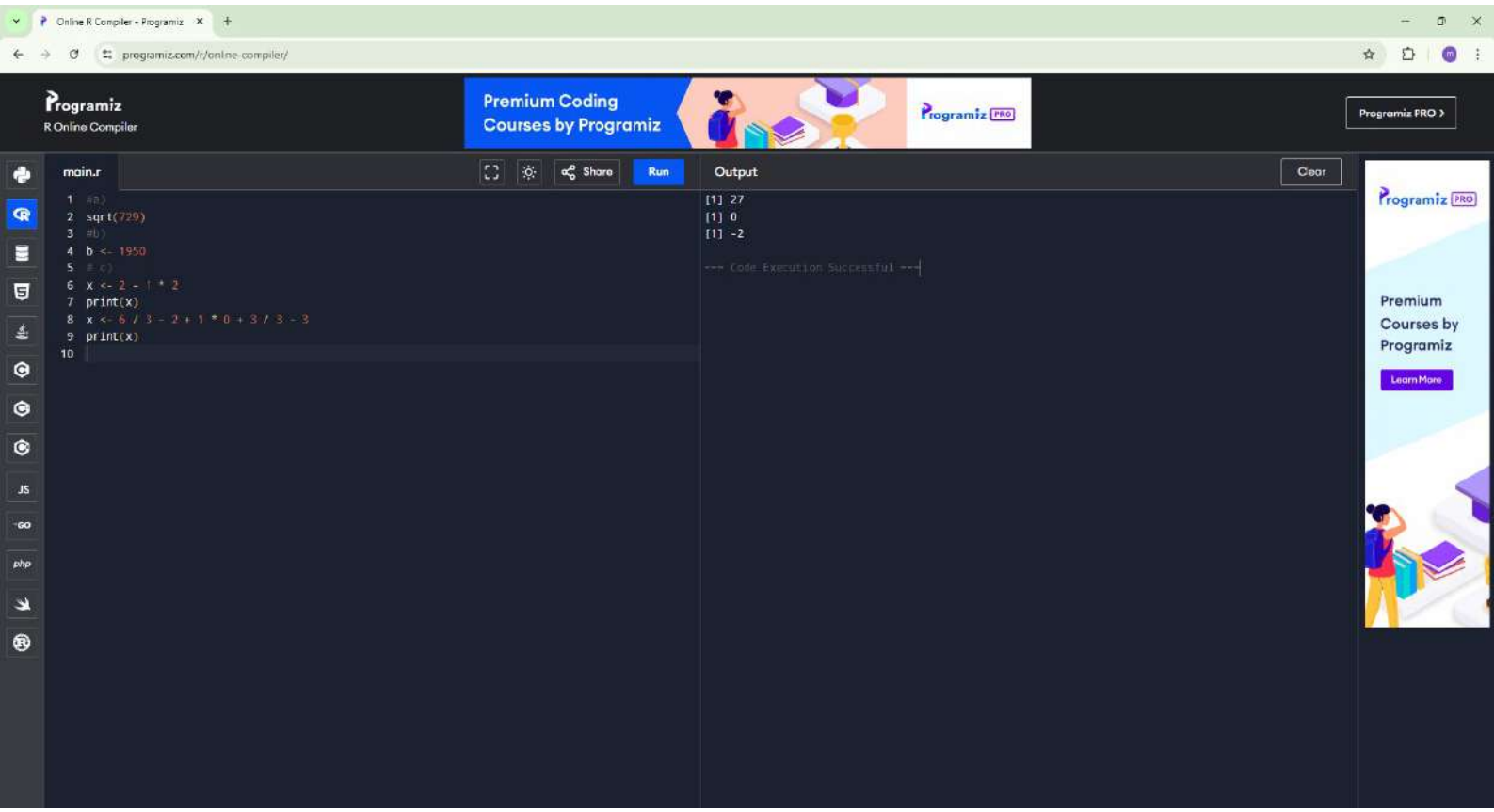
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Output
Clear
#a)
sqrt(729)
#b)
b <- 1950
# c)
x <- 2 - 1 * 2
print(x)
x <- 6 / 3 - 2 + 1 * 0 + 3 / 3 - 3
print(x)
[1] 27
[1] 0
[1] -2
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```r
# 3a
list1 <- list(c(10, 20, 30, 40))
print(list1)

# 3b
x <- matrix(c(3, 2, 4, 5), nrow = 2, byrow = TRUE)
y <- matrix(c(6, 7, 5, 4), nrow = 2, byrow = TRUE)

z * x
y * y
t(y)
x %*% y

# 3c
ar <- array(data = 1:27, dim = c(3, 3, 3), dimnames = list(c("Pizza", "Sandwich", "Idly"), c
    ("Vada", "Dosa", "Poori"), c("Bread", "Biriyani", "Chicken65")))

# 3d
Id <- c(1:5)
Name <- c("Mala", "Raj", "Kala", "Mani", "Hasid")
Occupation <- c("Doctor", "Software Engineer", "Pilot", "Driver", "Teacher")
Employee <- data.frame(Id, Name, Occupation)
print(Employee)
```

Output

Clear

```
[[1]]
[1] 10 20 30 40

     [,1] [,2]
[1,]    6    4
[2,]    8   10
     [,1] [,2]
[1,]   36   49
[2,]   25   16
     [,1] [,2]
[1,]    6    5
[2,]    7    4
     [,1] [,2]
[1,]   28   29
[2,]   49   48
  Id  Name        Occupation
1  1  Mala            Doctor
2  2   Raj Software Engineer
3  3 Kala             Pilot
4  4 Mani            Driver
5  5 Hasid           Teacher

--- Code Execution Successful ---
```

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```r
# 4a
7:11
seq(2, 9)
seq(6, -4, by = -2)
rep(2, 4)
rep(c(1, 2), 4)

# 4b
x <- matrix(1:9, nrow = 3, byrow = TRUE)
y <- matrix(9:1, nrow = 3, byrow = TRUE)

2 * x
y * y
t(y)
x %*% y

# 4c
vector1 <- c(8, 9, 1)
vector2 <- c(20, 21, 22, 23, 24, 25)

result <- array(c(vector1, vector2), dim = c(3, 3, 2), dimnames = list(c("Row1", "Row2",
    "Row3"), c("Col1", "Col2", "Col3"), c("Matrix1", "Matrix2")))
```

Output

Clear

```
 [1]  7  8  9 10 11
 [1] 2 3 4 5 6 7 8 9
 [1]  6  4  2  0 -2 -4
 [1] 2 2 2 2
 [1] 1 2 1 2 1 2 1 2
      [,1] [,2] [,3]
 [1,]    2    4    6
 [2,]    8   10   12
 [3,]   14   16   18
      [,1] [,2] [,3]
 [1,]   81   64   49
 [2,]   36   25   16
 [3,]    9    4    1
      [,1] [,2] [,3]
 [1,]    9    6    3
 [2,]    8    5    2
 [3,]    7    4    1
      [,1] [,2] [,3]
 [1,]   30   24   18
 [2,]   84   69   54
 [3,]  138  114   90

--- Code Execution Successful ---
```