```
In [1]: # Sources Used ::
        # 1. https://cran.r-project.org/web/packages/bda/index.html
        # 2. https://www.rdocumentation.org/packages/bda/versions/16.1.3/topics/mediation.t
        # 3. https://www.r-bloggers.com/2022/01/how-to-perform-the-sobel-test-in-r/
        # 4. https://www.statology.org/sobel-test-in-r/
        # 5. https://datasciencetut.com/how-to-test-the-significance-of-a-mediation-effect/
        # 6. https://clayford.github.io/BDA/ [Not Used ]
        #install bda package if not already installed
        install.packages('bda')
        #Load bda package
        library(bda)
        # Sample data frame 'data' with columns 'Panas...', 'Panas...1', 'BFI..E.', 'BFI..A.
        data <- read.csv("Pilot_modified_data_1.csv")</pre>
        # Independent variables
        independent_vars <- c('BFI..E.', 'BFI..A.', 'BFI..C.', 'BFI..N.', 'BFI..O.', 'EI..S
        # Dependent variables
        dependent_vars <- c('Panas...', 'Panas...1', 'CBCL')</pre>
        # Mediator variable
        mediator var <- 'PAQ'
        # Function to perform Sobel test for a given combination of variables
        perform sobel test <- function(independent var, dependent var, mediator var) {</pre>
          print(paste("Independent Variable:", independent_var))
          print(paste("Dependent Variable:", dependent_var))
          print(paste("Mediator Variable:", mediator var))
          result <- mediation.test(data[[mediator_var]], data[[independent_var]], data[[dep</pre>
          print(result)
          cat("\n")
          cat("\n")
        # Loop through all combinations of independent, dependent, and mediator variables
        for (ind var in independent vars) {
          for (dep_var in dependent_vars) {
            perform_sobel_test(ind_var, dep_var, mediator_var)
          }
        }
```

```
Updating HTML index of packages in '.Library'

Making 'packages.html' ...
done

Loading required package: boot

bda v15 (Bin Wang, 2021)
```

```
[1] "Independent Variable: BFI..E."
[1] "Dependent Variable: Panas.."
[1] "Mediator Variable: PAQ"
         Sobel
                Aroian Goodman
z.value 0.3945421 0.2446141
p.value 0.6931809 0.8067552
===="
[1] "Independent Variable: BFI..E."
[1] "Dependent Variable: Panas...1"
[1] "Mediator Variable: PAQ"
         Sobel
                Aroian Goodman
z.value 0.4816523 0.3663888 0.9237912
p.value 0.6300529 0.7140750 0.3555950
[1] "-----
[1] "Independent Variable: BFI..E."
[1] "Dependent Variable: CBCL"
[1] "Mediator Variable: PAQ"
         Sobel
               Aroian Goodman
z.value 0.3194426 0.1781558
p.value 0.7493909 0.8586006
[1] "-----
===="
[1] "Independent Variable: BFI..A."
[1] "Dependent Variable: Panas.."
[1] "Mediator Variable: PAQ"
                  Aroian
          Sohel
                          Goodman
z.value -0.2534252 -0.2424319 -0.2660639
p.value 0.7999396 0.8084455 0.7901900
[1] "-----
===="
[1] "Independent Variable: BFI..A."
[1] "Dependent Variable: Panas...1"
[1] "Mediator Variable: PAQ"
                Aroian Goodman
         Sobel
z.value 1.2481059 1.2011323 1.3010599
p.value 0.2119923 0.2296999 0.1932379
[1] "-----
===="
[1] "Independent Variable: BFI..A."
[1] "Dependent Variable: CBCL"
[1] "Mediator Variable: PAQ"
         Sobel
                 Aroian Goodman
z.value 0.7594706 0.7280137 0.7953926
p.value 0.4475711 0.4666052 0.4263852
```

```
===="
[1] "Independent Variable: BFI..C."
[1] "Dependent Variable: Panas.."
[1] "Mediator Variable: PAQ"
         Sobel
                Aroian Goodman
z.value -0.4641779 -0.3216017
p.value 0.6425203 0.7477545
[1] "-----
===="
[1] "Independent Variable: BFI..C."
[1] "Dependent Variable: Panas...1"
[1] "Mediator Variable: PAQ"
         Sobel
                 Aroian
                       Goodman
z.value -0.6027165 -0.4699693 -1.0111532
p.value 0.5466973 0.6383770 0.3119431
[1] "-----
===="
[1] "Independent Variable: BFI..C."
[1] "Dependent Variable: CBCL"
[1] "Mediator Variable: PAQ"
         Sobel
                Aroian Goodman
z.value -0.3375925 -0.2186308
p.value 0.7356703 0.8269376
[1] "-----
[1] "Independent Variable: BFI..N."
[1] "Dependent Variable: Panas.."
[1] "Mediator Variable: PAQ"
        Sobel
              Aroian Goodman
z.value 0.2800827 0.1457015
p.value 0.7794140 0.8841570
[1] "-----
[1] "Independent Variable: BFI..N."
[1] "Dependent Variable: Panas...1"
[1] "Mediator Variable: PAQ"
        Sobel
             Aroian
z.value 0.3164522 0.2245794 2.630658452
p.value 0.7516593 0.8223065 0.008521963
[1] "-----
[1] "Independent Variable: BFI..N."
[1] "Dependent Variable: CBCL"
```

```
[1] "Mediator Variable: PAQ"
         Sobel Aroian Goodman
z.value 0.2461225 0.1089475
p.value 0.8055874 0.9132442
                         NA
[1] "-----
[1] "Independent Variable: BFI..O."
[1] "Dependent Variable: Panas.."
[1] "Mediator Variable: PAQ"
         Sobel
              Aroian Goodman
z.value 0.3334398 0.1850038
p.value 0.7388023 0.8532260
                         NA
[1] "-----
[1] "Independent Variable: BFI..O."
[1] "Dependent Variable: Panas...1"
[1] "Mediator Variable: PAQ"
              Aroian Goodman
         Sobel
z.value 0.4425398 0.3601703 0.6320025
p.value 0.6580986 0.7187198 0.5273852
[1] "-----
===="
[1] "Independent Variable: BFI..O."
[1] "Dependent Variable: CBCL"
[1] "Mediator Variable: PAQ"
         Sobel
               Aroian Goodman
z.value 0.3278195 0.1797856
p.value 0.7430481 0.8573209
[1] "-----
===="
[1] "Independent Variable: EI..Self.A."
[1] "Dependent Variable: Panas.."
[1] "Mediator Variable: PAQ"
         Sobel
                 Aroian
z.value -0.5254774 -0.4148469 -0.8355368
p.value 0.5992514 0.6782540 0.4034155
[1] "-----
===="
[1] "Independent Variable: EI..Self.A."
[1] "Dependent Variable: Panas...1"
[1] "Mediator Variable: PAQ"
         Sobe1
                 Aroian
                         Goodman
z.value -0.7902689 -0.6679963 -1.0198866
p.value 0.4293708 0.5041360 0.3077823
```

===="

```
[1] "Independent Variable: EI..Self.A."
[1] "Dependent Variable: CBCL"
[1] "Mediator Variable: PAQ"
          Sobel
                 Aroian
                         Goodman
z.value -0.2256049 -0.1711821 -0.4398507
p.value 0.8215087 0.8640805 0.6600453
[1] "-----
===="
[1] "Independent Variable: EI..Self.M."
[1] "Dependent Variable: Panas.."
[1] "Mediator Variable: PAQ"
         Sobe1
                 Aroian Goodman
z.value -0.3322050 -0.2090846
p.value 0.7397345 0.8343822
[1] "-----
===="
[1] "Independent Variable: EI..Self.M."
[1] "Dependent Variable: Panas...1"
[1] "Mediator Variable: PAQ"
         Sobel
                 Aroian
                         Goodman
z.value -0.6286926 -0.5216337 -0.8497383
p.value 0.5295503 0.6019254 0.3954706
[1] "-----
===="
[1] "Independent Variable: EI..Self.M."
[1] "Dependent Variable: CBCL"
[1] "Mediator Variable: PAQ"
          Sobel
                 Aroian Goodman
z.value -0.2806177 -0.1725972
p.value 0.7790037 0.8629681
[1] "-----
===="
[1] "Independent Variable: EI..Social.A."
[1] "Dependent Variable: Panas.."
[1] "Mediator Variable: PAQ"
         Sobel
                 Aroian Goodman
z.value -0.4111492 -0.2611913
p.value 0.6809631 0.7939450
[1] "-----
===="
[1] "Independent Variable: EI..Social.A."
[1] "Dependent Variable: Panas...1"
[1] "Mediator Variable: PAQ"
          Sobel
                 Aroian
                         Goodman
```

```
z.value -0.5195756 -0.4056224 -0.8669145
p.value 0.6033594 0.6850201 0.3859889
[1] "-----
===="
[1] "Independent Variable: EI..Social.A."
[1] "Dependent Variable: CBCL"
[1] "Mediator Variable: PAQ"
         Sobel Aroian Goodman
z.value -0.3569060 -0.2124037
p.value 0.7211621 0.8317921
[1] "-----
----"
[1] "Independent Variable: EI..RM."
[1] "Dependent Variable: Panas.."
[1] "Mediator Variable: PAQ"
         Sobel
               Aroian Goodman
z.value -0.6027492 -0.5629899 -0.6523287
p.value 0.5466755 0.5734418 0.5141892
[1] "-----
[1] "Independent Variable: EI..RM."
[1] "Dependent Variable: Panas...1"
[1] "Mediator Variable: PAQ"
               Aroian Goodman
         Sobel
z.value -0.7983138 -0.7478035 -0.8606699
p.value 0.4246884 0.4545787 0.3894199
[1] "-----
[1] "Independent Variable: EI..RM."
[1] "Dependent Variable: CBCL"
[1] "Mediator Variable: PAQ"
         Sobel
               Aroian
                       Goodman
z.value -0.2598158 -0.2419291 -0.2823640
p.value 0.7950059 0.8088351 0.7776644
[1] "-----
----"
[1] "Independent Variable: Total"
[1] "Dependent Variable: Panas.."
[1] "Mediator Variable: PAQ"
         Sobel Aroian Goodman
z.value -0.09156017 -0.04595328
p.value 0.92704750 0.96334749
[1] "-----
===="
```

[1] "Independent Variable: Total"

```
[1] "Dependent Variable: Panas...1"
        [1] "Mediator Variable: PAQ"
                     Sobel
                              Aroian
                                        Goodman
        z.value -0.09239632 -0.0671788 -0.2807217
        p.value 0.92638316 0.9464394 0.7789239
        ===="
        [1] "Independent Variable: Total"
        [1] "Dependent Variable: CBCL"
        [1] "Mediator Variable: PAQ"
                     Sobel
                               Aroian Goodman
        z.value -0.08992769 -0.03184817
        p.value 0.92834468 0.97459313
        [1] "-----
In [3]: # Install the required package if not already installed
        if (!requireNamespace("bda", quietly = TRUE)) {
         install.packages("bda")
        # Load the bda package
        library(bda)
        # Sample data frame 'data' with columns as provided
        data <- read.csv("Pilot_modified_data_1.csv")</pre>
        # Independent variables
        independent_vars <- c('BFI..E.', 'BFI..A.', 'BFI..C.', 'BFI..N.', 'BFI..O.', 'EI..S
        # Dependent variables
        dependent_vars <- c('Panas...', 'Panas...1', 'CBCL')</pre>
        # Mediator variable
        mediator_var <- 'PAQ'</pre>
        # Create an AsciiDoc output file
        output_file <- "sobel_results.doc"</pre>
        file_conn <- file(output_file, open = "wt")</pre>
        # Function to perform Sobel test for a given combination of variables and save the
        perform_sobel_test <- function(independent_var, dependent_var, mediator_var, file_c
         cat("= Sobel Test Results for", independent_var, "as Independent Variable and", d
         result <- mediation.test(data[[mediator_var]], data[[independent_var]], data[[dep</pre>
         cat("== Independent Variable:", independent_var, "\n\n", file = file_conn)
         cat("== Dependent Variable:", dependent_var, "\n\n", file = file_conn)
         cat("== Mediator Variable:", mediator_var, "\n\n", file = file_conn)
         cat("== Sobel Test Result:\n\n", file = file_conn)
          cat(capture.output(result), file = file_conn)
```

```
# Loop through all combinations of independent, dependent, and mediator variables
for (ind_var in independent_vars) {
   for (dep_var in dependent_vars) {
      perform_sobel_test(ind_var, dep_var, mediator_var, file_conn)
   }
}
# Close the AsciiDoc output file
close(file_conn)
```

```
In [1]: #install bda package if not already installed
        install.packages('bda')
        #Load bda package
        library(bda)
         # Sample data frame 'data' with columns 'Panas..', 'Panas...1', 'BFI..E.', 'BFI..A.
         data <- read.csv("Pilot_modified_data_1.csv")</pre>
         result <- mediation.test(data$PAQ,data$BFI..E.,data$Panas..)</pre>
         print("mediation.test(Mediator Variable:PAQ ,Independent Variable:BFI..E. ,Dependen
         print(result)
         cat("\n")
         result <- mediation.test(data$PAQ,data$BFI..E.,data$Panas...1)</pre>
         print("mediation.test(Mediator Variable:PAQ, Independent Variable:BFI..E., Dependen
         print(result)
         cat("\n")
         result <- mediation.test(data$PAQ,data$BFI..E.,data$CBCL)</pre>
         print("mediation.test(Mediator Variable:PAQ , Independent Variable:BFI..E., Depende
         print(result)
         cat("\n")
         result <- mediation.test(data$PAQ,data$BFI..A.,data$Panas..)</pre>
         print("mediation.test(Mediator Variable:PAQ, Independent Variable:BFI..A., Dependen
         print(result)
         cat("\n")
         result <- mediation.test(data$PAQ,data$BFI..A.,data$Panas...1)</pre>
         print("mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..A.,Dependent
         print(result)
         cat("\n")
         result <- mediation.test(data$PAQ,data$BFI..A.,data$CBCL)</pre>
         print("mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..A.,Dependent
        print(result)
         cat("\n")
         result <- mediation.test(data$PAQ,data$BFI..C.,data$Panas..)
         print("mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..C.,Dependent
         print(result)
         cat("\n")
```

```
result <- mediation.test(data$PAQ,data$BFI..C.,data$Panas...1)</pre>
print("mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..C.,Dependent
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$BFI..C.,data$CBCL)</pre>
print("mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..C.,Dependent
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$BFI..N.,data$Panas..)</pre>
print("mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..N.,Dependent
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$BFI..N.,data$Panas...1)</pre>
print("mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..N.,Dependent
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$BFI..N.,data$CBCL)</pre>
print("mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..N.,Dependent
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$BFI..O.,data$Panas..)
print("mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..0.,Dependent
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$BFI..O.,data$Panas...1)
print("mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..0.,Dependent
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$BFI..O.,data$CBCL)</pre>
print(" mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..0.,Dependent
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$EI..Self.A.,data$Panas..)</pre>
print("mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Self.A.,Depend
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$EI..Self.A.,data$Panas...1)
print("mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Self.A.,Depend
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$EI..Self.A.,data$CBCL)</pre>
print("mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Self.A.,Depend
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$EI..Self.M.,data$Panas..)
```

```
print("mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Self.M.,Depend
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$EI..Self.M.,data$Panas...1)</pre>
print("mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Self.M.,Depend
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$EI..Self.M.,data$CBCL)</pre>
print("mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Self.M.,Depend
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$EI..Social.A.,data$Panas..)
print("mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Social.A.,Depe
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$EI..Social.A.,data$Panas...1)
print("mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Social.A.,Depe
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$EI..Social.A.,data$CBCL)
print("mediation.test(Mediator Variable:AQ,Independent Variable:EI..Social.A.,Depen
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$EI..RM.,data$Panas..)</pre>
print(" mediation.test(Mediator Variable:PAQ,Independent Variable:EI..RM.,Dependent
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$EI..RM.,data$Panas...1)</pre>
print("mediation.test(Mediator Variable:PAQ,Independent Variable:EI..RM.,Dependent
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$EI..RM.,data$CBCL)</pre>
print("mediation.test(Mediator Variable:PAQ,Independent Variable:EI..RM.,Dependent
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$Total,data$Panas..)</pre>
print("mediation.test(Mediator Variable:PAQ,Independent Variable:Total,Dependent Va
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$Total,data$Panas...1)
print("mediation.test(Mediator Variable:PAQ,Independent Variable:Total,Dependent Va
print(result)
cat("\n")
result <- mediation.test(data$PAQ,data$Total,data$CBCL)</pre>
print("mediation.test(Mediator Variable:PAQ,Independent Variable:Total,Dependent Va
```

```
print(result)
cat("\n")

Updating HTML index of packages in '.Library'

Making 'packages.html' ...
done

Loading required package: boot

bda v15 (Bin Wang, 2021)
```

```
[1] "mediation.test(Mediator Variable:PAQ ,Independent Variable:BFI..E. ,Dependent
Variable:Panas.. )"
            Sobel
                    Aroian Goodman
z.value 0.3945421 0.2446141
                                 NA
p.value 0.6931809 0.8067552
                                 NA
[1] "mediation.test(Mediator Variable:PAQ, Independent Variable:BFI..E., Dependent
Variable:Panas...1)"
            Sobel
                    Aroian
                              Goodman
z.value 0.4816523 0.3663888 0.9237912
p.value 0.6300529 0.7140750 0.3555950
[1] "mediation.test(Mediator Variable:PAQ , Independent Variable:BFI..E., Dependen
t Variable:CBCL)"
            Sobel
                     Aroian Goodman
z.value 0.3194426 0.1781558
                                 NΑ
p.value 0.7493909 0.8586006
                                 NA
[1] "mediation.test(Mediator Variable:PAQ, Independent Variable:BFI..A., Dependent
Variable:Panas..)"
             Sobel
                       Aroian
                                 Goodman
z.value -0.2534252 -0.2424319 -0.2660639
p.value 0.7999396 0.8084455 0.7901900
[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..A.,Dependent V
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                    Aroian
                              Goodman
z.value 1.2481059 1.2011323 1.3010599
p.value 0.2119923 0.2296999 0.1932379
[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..A.,Dependent V
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                     Aroian
                              Goodman
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p.value 0.4475711 0.4666052 0.4263852
[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..C.,Dependent V
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                       Aroian Goodman
z.value -0.4641779 -0.3216017
p.value 0.6425203 0.7477545
                                   NΑ
[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..C.,Dependent V
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             Sobel
                       Aroian
                                 Goodman
z.value -0.6027165 -0.4699693 -1.0111532
p.value 0.5466973 0.6383770 0.3119431
[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..C.,Dependent V
ariable:CBCL)"
             Sobel
                       Aroian Goodman
z.value -0.3375925 -0.2186308
                                   NΑ
p.value 0.7356703 0.8269376
                                   NA
[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..N.,Dependent V
ariable:Panas..)"
```

```
Sobel
                     Aroian Goodman
z.value 0.2800827 0.1457015
p.value 0.7794140 0.8841570
                                 NA
[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..N.,Dependent V
ariable:Panas...1)"
            Sobel
                     Aroian
                                Goodman
z.value 0.3164522 0.2245794 2.630658452
p.value 0.7516593 0.8223065 0.008521963
[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..N.,Dependent V
ariable:CBCL)"
            Sobel
                     Aroian Goodman
z.value 0.2461225 0.1089475
                                 NA
p.value 0.8055874 0.9132442
                                 NA
[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..0.,Dependent V
ariable:Panas..)"
            Sobel
                     Aroian Goodman
z.value 0.3334398 0.1850038
p.value 0.7388023 0.8532260
                                 NA
[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..0.,Dependent V
ariable:Panas...1)"
            Sobel
                     Aroian
                              Goodman
z.value 0.4425398 0.3601703 0.6320025
p.value 0.6580986 0.7187198 0.5273852
[1] " mediation.test(Mediator Variable:PAQ,Independent Variable:BFI..O.,Dependent
Variable:CBCL)"
            Sobel
                     Aroian Goodman
z.value 0.3278195 0.1797856
                                 NA
p.value 0.7430481 0.8573209
                                 NA
[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Self.A.,Depende
nt Variable:Panas..)"
             Sobel
                       Aroian
                                 Goodman
z.value -0.5254774 -0.4148469 -0.8355368
p.value 0.5992514 0.6782540 0.4034155
[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Self.A.,Depende
nt Variable:Panas...1)"
             Sobel
                       Aroian
                                 Goodman
z.value -0.7902689 -0.6679963 -1.0198866
p.value 0.4293708 0.5041360 0.3077823
[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Self.A.,Depende
nt Variable:CBCL)"
             Sobel
                       Aroian
                                 Goodman
z.value -0.2256049 -0.1711821 -0.4398507
p.value 0.8215087 0.8640805 0.6600453
[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Self.M.,Depende
nt Variable:Panas..)"
             Sobel
                       Aroian Goodman
z.value -0.3322050 -0.2090846
                                   NΑ
```

p.value 0.7397345 0.8343822 [1] "mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Self.M.,Depende nt Variable:Panas...1)" Sobel Aroian Goodman z.value -0.6286926 -0.5216337 -0.8497383 p.value 0.5295503 0.6019254 0.3954706 [1] "mediation.test(Mediator Variable:PAO,Independent Variable:EI..Self.M.,Depende nt Variable:CBCL)" Sobel Aroian Goodman z.value -0.2806177 -0.1725972 p.value 0.7790037 0.8629681 [1] "mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Social.A.,Depen dent Variable:Panas..)" Sobel Aroian Goodman z.value -0.4111492 -0.2611913 p.value 0.6809631 0.7939450 [1] "mediation.test(Mediator Variable:PAQ,Independent Variable:EI..Social.A.,Depen dent Variable:Panas...1)" Sobe1 Aroian Goodman z.value -0.5195756 -0.4056224 -0.8669145 p.value 0.6033594 0.6850201 0.3859889 [1] "mediation.test(Mediator Variable:AQ,Independent Variable:EI..Social.A.,Depend ent Variable:CBCL)" Sobe1 Aroian Goodman z.value -0.3569060 -0.2124037 p.value 0.7211621 0.8317921 NA [1] " mediation.test(Mediator Variable:PAQ,Independent Variable:EI..RM.,Dependent Variable:Panas..)" Sobel Aroian Goodman z.value -0.6027492 -0.5629899 -0.6523287 p.value 0.5466755 0.5734418 0.5141892 [1] "mediation.test(Mediator Variable:PAQ,Independent Variable:EI..RM.,Dependent V ariable:Panas...1)" Sobe1 Aroian Goodman z.value -0.7983138 -0.7478035 -0.8606699 p.value 0.4246884 0.4545787 0.3894199 [1] "mediation.test(Mediator Variable:PAQ,Independent Variable:EI..RM.,Dependent V ariable:CBCL)" Sobel Aroian Goodman z.value -0.2598158 -0.2419291 -0.2823640 p.value 0.7950059 0.8088351 0.7776644 [1] "mediation.test(Mediator Variable:PAQ,Independent Variable:Total,Dependent Var iable:Panas..)" Sobel Aroian Goodman z.value -0.09156017 -0.04595328

NA

p.value 0.92704750 0.96334749

[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:Total,Dependent Variable:Panas...1)"

Sobel Aroian Goodman

z.value -0.09239632 -0.0671788 -0.2807217

p.value 0.92638316 0.9464394 0.7789239

[1] "mediation.test(Mediator Variable:PAQ,Independent Variable:Total,Dependent Variable:CBCL)"

Sobel Aroian Goodman z.value -0.08992769 -0.03184817 NA p.value 0.92834468 0.97459313 NA

In []: