Evidencia Pylint Problema 1

computeStatistics.py

P1 > computeStatistics.py > main

```
113  def main():
129
130      # Computations
131      count_val = len(data)  # <--- Agregamos el conteo
132      mean_val = compute_mean(data)
133      median_val = compute_median(data)
134      mode_val = compute_mode(data)
135      variance_val = compute_variance(data, mean_val)
136      std_dev_val = compute_std_dev(variance_val)
137
138      elapsed_time = time.time() - start_time
139
140      # Display Results
141      print(f"Count: {count_val}") # <--- Lo imprimimos
142      print(f"Mean: {mean_val}")
143      print(f"Median: {median_val}")
144      print(f"Mode: {mode_val}")
145      print(f"Standard Deviation: {std_dev_val}")
146      print(f"Variance: {variance_val}")
147      print(f"Time elapsed: {elapsed_time:.6f} seconds")
148
149      # Save Results to File
150      with open("StatisticsResults.txt", "w", encoding='utf-8') as result_file:
151          result_file.write(f"Count: {count_val}\n") # <--- Lo guardamos
152          result_file.write(f"Mean: {mean_val}\n")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Mode: 393.0
Standard Deviation: 145.25810683056557
Variance: 21099.917599999997
Time elapsed: 0.000000 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P1> pylint computeStatistics.py

--------------------------------------------------------------------
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)

PS C:\Users\lalo4\Downloads\Act4.2\P1>
```

Evidencias Resultados Problema 1

computeStatistics.py

P1 > computeStatistics.py > main

```
113  def main():
129
130      # Computations
131      count_val = len(data)  # <--- Agregamos el conteo
132      mean_val = compute_mean(data)
133      median_val = compute_median(data)
134      mode_val = compute_mode(data)
135      variance_val = compute_variance(data, mean_val)
136      std_dev_val = compute_std_dev(variance_val)
137
138      elapsed_time = time.time() - start_time
139
140      # Display Results
141      print(f"Count: {count_val}") # <--- Lo imprimimos
142      print(f"Mean: {mean_val}")
143      print(f"Median: {median_val}")
144      print(f"Mode: {mode_val}")
145      print(f"Standard Deviation: {std_dev_val}")
146      print(f"Variance: {variance_val}")
147      print(f"Time elapsed: {elapsed_time:.6f} seconds")
148
149      # Save Results to File
150      with open("StatisticsResults.txt", "w", encoding='utf-8') as result_file:
151          result_file.write(f"Count: {count_val}\n") # <--- Lo guardamos
152          result_file.write(f"Mean: {mean_val}\n")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\lalo4\Downloads\Act4.2\P1> python computeStatistics.py TC1.txt
Count: 400
Mean: 242.32
Median: 239.5
Mode: 393.0
Standard Deviation: 145.25810683056557
Variance: 21099.917599999997
Time elapsed: 0.000000 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P1>
```

computeStatistics.py

P1 > computeStatistics.py > main

```
113  def main():
129
130      # Computations
131      count_val = len(data)  # <--- Agregamos el conteo
132      mean_val = compute_mean(data)
133      median_val = compute_median(data)
134      mode_val = compute_mode(data)
135      variance_val = compute_variance(data, mean_val)
136      std_dev_val = compute_std_dev(variance_val)
137
138      elapsed_time = time.time() - start_time
139
140      # Display Results
141      print(f"Count: {count_val}") # <--- Lo imprimimos
142      print(f"Mean: {mean_val}")
143      print(f"Median: {median_val}")
144      print(f"Mode: {mode_val}")
145      print(f"Standard Deviation: {std_dev_val}")
146      print(f"Variance: {variance_val}")
147      print(f"Time elapsed: {elapsed_time:.6f} seconds")
148
149      # Save Results to File
150      with open("StatisticsResults.txt", "w", encoding='utf-8') as result_file:
151          result_file.write(f"Count: {count_val}\n") # <--- Lo guardamos
152          result_file.write(f"Mean: {mean_val}\n")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\lalo4\Downloads\Act4.2\P1> python computeStatistics.py TC2.txt
Count: 1977
Mean: 250.7840161861406
Median: 247.0
Mode: 230.0
Standard Deviation: 144.17131868884059
Variance: 20785.369132479238
Time elapsed: 0.000996 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P1>
```

computeStatistics.py

P1 > computeStatistics.py > main

```
113  def main():
129
130      # Computations
131      count_val = len(data)  # <--- Agregamos el conteo
132      mean_val = compute_mean(data)
133      median_val = compute_median(data)
134      mode_val = compute_mode(data)
135      variance_val = compute_variance(data, mean_val)
136      std_dev_val = compute_std_dev(variance_val)
137
138      elapsed_time = time.time() - start_time
139
140      # Display Results
141      print(f"Count: {count_val}") # <--- Lo imprimimos
142      print(f"Mean: {mean_val}")
143      print(f"Median: {median_val}")
144      print(f"Mode: {mode_val}")
145      print(f"Standard Deviation: {std_dev_val}")
146      print(f"Variance: {variance_val}")
147      print(f"Time elapsed: {elapsed_time:.6f} seconds")
148
149      # Save Results to File
150      with open("StatisticsResults.txt", "w", encoding='utf-8') as result_file:
151          result_file.write(f"Count: {count_val}\n") # <--- Lo guardamos
152          result_file.write(f"Mean: {mean_val}\n")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Time elapsed: 0.000996 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P1> python computeStatistics.py TC3.txt
Count: 12624
Mean: 249.77621989860583
Median: 249.0
Mode: 94.0
Standard Deviation: 145.31784980917962
Variance: 21117.27747316329
Time elapsed: 0.026001 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P1>
```

computeStatistics.py

P1 > computeStatistics.py > main

```
113  def main():
129
130      # Computations
131      count_val = len(data)  # <--- Agregamos el conteo
132      mean_val = compute_mean(data)
133      median_val = compute_median(data)
134      mode_val = compute_mode(data)
135      variance_val = compute_variance(data, mean_val)
136      std_dev_val = compute_std_dev(variance_val)
137
138      elapsed_time = time.time() - start_time
139
140      # Display Results
141      print(f"Count: {count_val}") # <--- Lo imprimimos
142      print(f"Mean: {mean_val}")
143      print(f"Median: {median_val}")
144      print(f"Mode: {mode_val}")
145      print(f"Standard Deviation: {std_dev_val}")
146      print(f"Variance: {variance_val}")
147      print(f"Time elapsed: {elapsed_time:.6f} seconds")
148
149      # Save Results to File
150      with open("StatisticsResults.txt", "w", encoding='utf-8') as result_file:
151          result_file.write(f"Count: {count_val}\n") # <--- Lo guardamos
152          result_file.write(f"Mean: {mean_val}\n")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Time elapsed: 0.026001 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P1> python computeStatistics.py TC4.txt
Count: 12624
Mean: 149.00267347908746
Median: 147.75
Mode: 123.75
Standard Deviation: 130.41441961308894
Variance: 17007.920843018837
Time elapsed: 0.053546 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P1>
```

computeStatistics.py

P1 > computeStatistics.py > main

```
113  def main():
129
130      # Computations
131      count_val = len(data)  # <--- Agregamos el conteo
132      mean_val = compute_mean(data)
133      median_val = compute_median(data)
134      mode_val = compute_mode(data)
135      variance_val = compute_variance(data, mean_val)
136      std_dev_val = compute_std_dev(variance_val)
137
138      elapsed_time = time.time() - start_time
139
140      # Display Results
141      print(f"Count: {count_val}") # <--- Lo imprimimos
142      print(f"Mean: {mean_val}")
143      print(f"Median: {median_val}")
144      print(f"Mode: {mode_val}")
145      print(f"Standard Deviation: {std_dev_val}")
146      print(f"Variance: {variance_val}")
147      print(f"Time elapsed: {elapsed_time:.6f} seconds")
148
149      # Save Results to File
150      with open("StatisticsResults.txt", "w", encoding='utf-8') as
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\lalo4\Downloads\Act4.2\P1> python computeStatistics.py TC5.txt
Error: Invalid data at line 5: 'ABA'
Error: Invalid data at line 155: '23,45'
Error: Invalid data at line 232: '11;54'
Error: Invalid data at line 232: '11;54'
Error: Invalid data at line 239: 'll'
Count: 307
Mean: 241.49511400651465
Median: 241.0
Mode: 393.0
Standard Deviation: 145.46484786056646
Variance: 21160.021963097748
Time elapsed: 0.028097 seconds
```

computeStatistics.py | convertNumbers.py

P1 > computeStatistics.py > ...

```
115  def main():
144      print(f"Mode: {mode_val}")
145      print(f"Standard Deviation: {std_dev_val}")
146      print(f"Variance: {variance_val}")
147      print(f"Time elapsed: {elapsed_time:.6f} seconds")
148
149      with open("StatisticsResults.txt", "w", encoding='utf-8') as result_file:
150          result_file.write(f"Count: {count_val}\n")
151          result_file.write(f"Mean: {mean_val}\n")
152          result_file.write(f"Median: {median_val}\n")
153          result_file.write(f"Mode: {mode_val}\n")
154          result_file.write(f"Standard Deviation: {std_dev_val}\n")
155          result_file.write(f"Variance: {variance_val}\n")
156          result_file.write(f"Time elapsed: {elapsed_time:.6f} seconds\n")
157
158  if __name__ == "__main__":
159      main()
160
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\lalo4\Downloads\Act4.2\P1> python computeStatistics.py TC6.txt
Count: 3000
Mean: 1.8790659927977473e+20
Median: 1.88008049965543e+20
Mode: NA
Standard Deviation: 1.0738205017381e+20
Variance: 1.1530904699530647e+40
Time elapsed: 0.002000 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P1>
```

P1 > computeStatistics.py > ...

```
115  def main():
144      print(f"Mode: {mode_val}")
145      print(f"Standard Deviation: {std_dev_val}")
146      print(f"Variance: {variance_val}")
147      print(f"Time elapsed: {elapsed_time:.6f} seconds")
148
149      with open("StatisticsResults.txt", "w", encoding='utf-8') as result_file:
150          result_file.write(f"Count: {count_val}\n")
151          result_file.write(f"Mean: {mean_val}\n")
152          result_file.write(f"Median: {median_val}\n")
153          result_file.write(f"Mode: {mode_val}\n")
154          result_file.write(f"Standard Deviation: {std_dev_val}\n")
155          result_file.write(f"Variance: {variance_val}\n")
156          result_file.write(f"Time elapsed: {elapsed_time:.6f} seconds\n")
157
158  if __name__ == "__main__":
159      main()
160
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Time elapsed: 0.002000 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P1> python computeStatistics.py TC7.txt
Error: Invalid data at line 183: 'ABBA'
Error: Invalid data at line 229: 'ERROR'
Count: 12767
Mean: 2.474673954997149e+20
Median: 2.4664097307429e+20
Mode: NA
Standard Deviation: 1.4460564700984703e+20
Variance: 2.0910793147136484e+40
Time elapsed: 0.006001 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P1>
```

Evidencia Pylint Problema 2

computeStatistics.py | convertNumbers.py

P2 > convertNumbers.py > ...

```
 96  def main():
118      results.append(header)
119      results.append(separator)
120
121      for i, num in enumerate(data, 1):
122          b_val = to_binary(num)
123          h_val = to_hexadecimal(num)
124          line_str = f"{i:<5} | {num:<10} | {b_val:<20} | {h_val:<20}"
125          print(line_str)
126          results.append(line_str)
127
128      elapsed = time.time() - start_time
129      time_msg = f"\nTime elapsed: {elapsed:.6f} seconds"
130      print(time_msg)
131      results.append(time_msg)
132
133      # Save to file using helper function
134      save_results_to_file(results)
135
136  if __name__ == "__main__":
137      main()
138
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\lalo4\Downloads\Act4.2\P2> pylint convertNumbers.py

--------------------------------------------------------------------
Your code has been rated at 10.00/10 (previous run: 9.66/10, +0.34)

PS C:\Users\lalo4\Downloads\Act4.2\P2>
```

Evidencias Resultados Problema 2

Convertidor de decimal a hexadecimal

Desde

Decimal

Para

Hexadecimal

Ingrese el número decimal:

2250854 10

Convertir Reiniciar Intercambiar

Número hexadecimal:

225866 16

Complemento de 2 con signo hexagonal:

00225866 16

Número binario:

10001001011000011100110 2

Agrupación de dígitos

computeStatistics.py | convertNumbers.py

P2 > convertNumbers.py > ...

```python
def main():
    results.append(header)
    results.append(separator)

    for i, num in enumerate(data, 1):
        b_val = to_binary(num)
        h_val = to_hexadecimal(num)
        line_str = f"{i:<5} | {num:<10} | {b_val:<20} | {h_val:<20}"
        print(line_str)
        results.append(line_str)

    elapsed = time.time() - start_time
    time_msg = f"\nTime elapsed: {elapsed:.6f} seconds"
    print(time_msg)
    results.append(time_msg)

    # Save to file using helper function
    save_results_to_file(results)

if __name__ == "__main__":
    main()
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
194   | 7922103    | 11110001110000110110111 | 78E1B7
195   | 9366003    | 10001110111010011111011 | 8EE9F3
196   | 4555717    | 10001011000001111000101 | 4583C5
197   | 3526753    | 11010111010000001100001 | 35D061
198   | 3176815    | 11000001111100101101111 | 30796F
199   | 858440     | 11010001100101001000 | D1948
200   | 2250854    | 10001001011000011100110 | 225866

Time elapsed: 0.015108 seconds

Results saved to ConvertionResults.txt
PS C:\Users\lalo4\Downloads\Act4.2\P2>
```

computeStatistics.py | convertNumbers.py

P2 > convertNumbers.py > ...

```
 96  def main():
118      results.append(header)
119      results.append(separator)
120
121      for i, num in enumerate(data, 1):
122          b_val = to_binary(num)
123          h_val = to_hexadecimal(num)
124          line_str = f"{i:<5} | {num:<10} | {b_val:<20} | {h_val:<20}"
125          print(line_str)
126          results.append(line_str)
127
128      elapsed = time.time() - start_time
129      time_msg = f"\nTime elapsed: {elapsed:.6f} seconds"
130      print(time_msg)
131      results.append(time_msg)
132
133      # Save to file using helper function
134      save_results_to_file(results)
135
136  if __name__ == "__main__":
137      main()
138
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\lalo4\Downloads\Act4.2\P2> python convertNumbers.py TC2.txt
ITEM  | NUMBER     | BINARY               | HEX
-------------------------------------------------------------
1     | 7116776    | 11011001001011111101000 | 6C97E8
2     | 1666340    | 11001011010100100100 | 196D24
3     | 8886983    | 100001111001101011000111 | 879AC7
4     | 839365     | 11001100111011000101 | CCEC5
5     | 924280     | 11100001101001111000 | E1A78
6     | 1026310    | 11111010100100000110 | FA906
7     | 1615293    | 11000101001010111101 | 18A5BD
8     | 1063875    | 10000011101111000011 | 103BC3
9     | 679035     | 10100101110001111011 | A5C7B
```

computeStatistics.py | convertNumbers.py

P2 > convertNumbers.py > ...

```
 96  def main():
118      results.append(header)
119      results.append(separator)
120
121      for i, num in enumerate(data, 1):
122          b_val = to_binary(num)
123          h_val = to_hexadecimal(num)
124          line_str = f"{i:<5} | {num:<10} | {b_val:<20} | {h_val:<20}"
125          print(line_str)
126          results.append(line_str)
127
128      elapsed = time.time() - start_time
129      time_msg = f"\nTime elapsed: {elapsed:.6f} seconds"
130      print(time_msg)
131      results.append(time_msg)
132
133      # Save to file using helper function
134      save_results_to_file(results)
135
136  if __name__ == "__main__":
137      main()
138
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\lalo4\Downloads\Act4.2\P2> python convertNumbers.py TC3.txt
ITEM  | NUMBER     | BINARY               | HEX
------------------------------------------------------------
1     | -39        | -100111              | -27
2     | -36        | -100100              | -24
3     | 8          | 1000                 | 8
4     | 34         | 100010               | 22
5     | 17         | 10001                | 11
6     | 49         | 110001               | 31
7     | 5          | 101                  | 5
8     | 39         | 100111               | 27
9     | 0          | 0                    | 0
```

computeStatistics.py | convertNumbers.py

P2 > convertNumbers.py > ...

```
 96  def main():
118      results.append(header)
119      results.append(separator)
120
121      for i, num in enumerate(data, 1):
122          b_val = to_binary(num)
123          h_val = to_hexadecimal(num)
124          line_str = f"{i:<5} | {num:<10} | {b_val:<20} | {h_val:<20}"
125          print(line_str)
126          results.append(line_str)
127
128      elapsed = time.time() - start_time
129      time_msg = f"\nTime elapsed: {elapsed:.6f} seconds"
130      print(time_msg)
131      results.append(time_msg)
132
133      # Save to file using helper function
134      save_results_to_file(results)
135
136  if __name__ == "__main__":
137      main()
138
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\lalo4\Downloads\Act4.2\P2> python convertNumbers.py TC4.txt
Error: Invalid data at line 8: 'ABC'
Error: Invalid data at line 21: 'ERR'
Error: Invalid data at line 41: 'VAL'
ITEM  | NUMBER     | BINARY               | HEX
------------------------------------------------------------
1     | -39        | -100111              | -27
2     | -36        | -100100              | -24
3     | 8          | 1000                 | 8
4     | 34         | 100010               | 22
5     | 17         | 10001                | 11
6     | 49         | 110001               | 31
```

Evidencia Pylint Problema 3

Evidencias Resultados Problema 3

computeStatistics.py | convertNumbers.py | wordCount.py

P1 > computeStatistics.py > ...

```
115 def main():
144     print(f"Mode: {mode_val}")
145     print(f"Standard Deviation: {std_dev_val}")
146     print(f"Variance: {variance_val}")
147     print(f"Time elapsed: {elapsed_time:.6f} seconds")
148
149     with open("StatisticsResults.txt", "w", encoding='utf-8') as result_file:
150         result_file.write(f"Count: {count_val}\n")
151         result_file.write(f"Mean: {mean_val}\n")
152         result_file.write(f"Median: {median_val}\n")
153         result_file.write(f"Mode: {mode_val}\n")
154         result_file.write(f"Standard Deviation: {std_dev_val}\n")
155         result_file.write(f"Variance: {variance_val}\n")
156         result_file.write(f"Time elapsed: {elapsed_time:.6f} seconds\n")
157
158 if __name__ == "__main__":
159     main()
160
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
93  | tions                          | 1
94  | trained                        | 1
95  | uni                            | 1
96  | vagina                         | 1
97  | wan                            | 1
98  | webcast                        | 1
99  | worse                          | 1
-------------------------------------------------
    | GRAND TOTAL                    | 100
-------------------------------------------------
Time elapsed: 0.001000 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P3>
```

computeStatistics.py | convertNumbers.py | wordCount.py

P1 > computeStatistics.py > ...

```
115  def main():
144      print(f"Mode: {mode_val}")
145      print(f"Standard Deviation: {std_dev_val}")
146      print(f"Variance: {variance_val}")
147      print(f"Time elapsed: {elapsed_time:.6f} seconds")
148
149      with open("StatisticsResults.txt", "w", encoding='utf-8') as result_file:
150          result_file.write(f"Count: {count_val}\n")
151          result_file.write(f"Mean: {mean_val}\n")
152          result_file.write(f"Median: {median_val}\n")
153          result_file.write(f"Mode: {mode_val}\n")
154          result_file.write(f"Standard Deviation: {std_dev_val}\n")
155          result_file.write(f"Variance: {variance_val}\n")
156          result_file.write(f"Time elapsed: {elapsed_time:.6f} seconds\n")
157
158  if __name__ == "__main__":
159      main()
160
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
138  | variety                    | 1
139  | vessels                    | 1
140  | vice                       | 1
141  | violence                   | 1
142  | way                        | 1
143  | weight                     | 1
144  | win                        | 1
-------------------------------------------------
     | GRAND TOTAL                | 184
-------------------------------------------------
Time elapsed: 0.026956 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P3>
```

computeStatistics.py | convertNumbers.py | wordCount.py

P1 > computeStatistics.py > ...

```
115   def main():
144       print(f"Mode: {mode_val}")
145       print(f"Standard Deviation: {std_dev_val}")
146       print(f"Variance: {variance_val}")
147       print(f"Time elapsed: {elapsed_time:.6f} seconds")
148
149       with open("StatisticsResults.txt", "w", encoding='utf-8') as result_file:
150           result_file.write(f"Count: {count_val}\n")
151           result_file.write(f"Mean: {mean_val}\n")
152           result_file.write(f"Median: {median_val}\n")
153           result_file.write(f"Mode: {mode_val}\n")
154           result_file.write(f"Standard Deviation: {std_dev_val}\n")
155           result_file.write(f"Variance: {variance_val}\n")
156           result_file.write(f"Time elapsed: {elapsed_time:.6f} seconds\n")
157
158   if __name__ == "__main__":
159       main()
160
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
481   | wooden                          | 1
482   | works                           | 1
483   | wrote                           | 1
484   | ya                              | 1
485   | you                             | 1
486   | z                               | 1
487   | zdnet                           | 1
-------------------------------------------------
      | GRAND TOTAL                     | 500
-------------------------------------------------
Time elapsed: 0.025520 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P3>
```

computeStatistics.py | convertNumbers.py | wordCount.py

P1 > computeStatistics.py > ...

```
115 def main():
144     print(f"Mode: {mode_val}")
145     print(f"Standard Deviation: {std_dev_val}")
146     print(f"Variance: {variance_val}")
147     print(f"Time elapsed: {elapsed_time:.6f} seconds")
148
149     with open("StatisticsResults.txt", "w", encoding='utf-8') as result_file:
150         result_file.write(f"Count: {count_val}\n")
151         result_file.write(f"Mean: {mean_val}\n")
152         result_file.write(f"Median: {median_val}\n")
153         result_file.write(f"Mode: {mode_val}\n")
154         result_file.write(f"Standard Deviation: {std_dev_val}\n")
155         result_file.write(f"Variance: {variance_val}\n")
156         result_file.write(f"Time elapsed: {elapsed_time:.6f} seconds\n")
157
158 if __name__ == "__main__":
159     main()
160
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
943 | yellow                    | 1
944 | yet                       | 1
945 | yourself                  | 1
946 | yu                        | 1
947 | yukon                     | 1
948 | z                         | 1
949 | zen                       | 1
-------------------------------------------------
    | GRAND TOTAL               | 1000
-------------------------------------------------
Time elapsed: 0.039329 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P3>
```

computeStatistics.py | convertNumbers.py | wordCount.py

P1 > computeStatistics.py > ...

```
115 def main():
144     print(f"Mode: {mode_val}")
145     print(f"Standard Deviation: {std_dev_val}")
146     print(f"Variance: {variance_val}")
147     print(f"Time elapsed: {elapsed_time:.6f} seconds")
148
149     with open("StatisticsResults.txt", "w", encoding='utf-8') as result_file:
150         result_file.write(f"Count: {count_val}\n")
151         result_file.write(f"Mean: {mean_val}\n")
152         result_file.write(f"Median: {median_val}\n")
153         result_file.write(f"Mode: {mode_val}\n")
154         result_file.write(f"Standard Deviation: {std_dev_val}\n")
155         result_file.write(f"Variance: {variance_val}\n")
156         result_file.write(f"Time elapsed: {elapsed_time:.6f} seconds\n")
157
158 if __name__ == "__main__":
159     main()
160
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
3744 | younger                    | 1
3745 | yourself                   | 1
3746 | yugoslavia                 | 1
3747 | yukon                      | 1
3748 | zambia                     | 1
3749 | zealand                    | 1
3750 | zen                        | 1
-------------------------------------------------
     | GRAND TOTAL                | 5000
-------------------------------------------------
Time elapsed: 0.035758 seconds
PS C:\Users\lalo4\Downloads\Act4.2\P3>
```