computeStatistics.py

```
● (venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python computeStatistics.py ./P1/TC1.txt

   ===   Starting analysis ===
   STATS:
   TC       TC1
   COUNT    400
   MEAN     242.32
   MEDIAN   239.5
   MODE     170.0
   SD       145.44002062361477
   VARIANCE          21152.79959899749

   Erros found (line, value): []
   Execution and computation time: 0.0034 seconds
   === Analysis finished ===

● (venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python computeStatistics.py ./P1/TC2.txt

   ===   Starting analysis ===
   STATS:
   TC       TC2
   COUNT    1977
   MEAN     250.7840161861406
   MEDIAN   247.0
   MODE     230.0
   SD       144.2077946713822
   VARIANCE          20795.88804398353

   Erros found (line, value): []
   Execution and computation time: 0.0194 seconds
   === Analysis finished ===

● (venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python computeStatistics.py ./P1/TC3.txt

   ===   Starting analysis ===
   STATS:
   TC       TC3
   COUNT    12624
   MEAN     249.77621989860583
   MEDIAN   249.0
   MODE     94.0
   SD       145.32360576940644
   VARIANCE          21118.950393821862

   Erros found (line, value): []
   Execution and computation time: 0.1002 seconds
   === Analysis finished ===

● (venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python computeStatistics.py ./P1/TC4.txt

   ===   Starting analysis ===
   STATS:
   TC       TC4
   COUNT    12624
   MEAN     149.00267347908746
   MEDIAN   147.75
   MODE     123.75
   SD       130.4195852566302
   VARIANCE          17009.26821851143

   Erros found (line, value): []
   Execution and computation time: 0.1129 seconds
   === Analysis finished ===
```

```
● (venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python computeStatistics.py ./P1/TC5.txt

  ===   Starting analysis ===
  STATS:
  TC       TC5
  COUNT    307
  MEAN     241.49511400651465
  MEDIAN   241.0
  MODE     11.0
  SD       145.70234164786083
  VARIANCE        21229.17236166996

  Erros found (line, value): [(4, 'ABA\n'), (154, '23,45\n'), (231, '11;54\n'), (238, 'll\n')]
  Execution and computation time: 0.0033 seconds
  === Analysis finished ===

● (venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python computeStatistics.py ./P1/TC6.txt

  ===   Starting analysis ===
  STATS:
  TC       TC6
  COUNT    3000
  MEAN     1.8790659927977473e+20
  MEDIAN   1.88008049965543e+20
  MODE     9.6231693617084e+17
  SD       1.0739995165766761e+20
  VARIANCE        1.1534749616069338e+40

  Erros found (line, value): []
  Execution and computation time: 0.1225 seconds
  === Analysis finished ===

● (venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python computeStatistics.py ./P1/TC7.txt

  ===   Starting analysis ===
  STATS:
  TC       TC7
  COUNT    12767
  MEAN     2.474673954997149e+20
  MEDIAN   2.4664097307429e+20
  MODE     4.30461588377079e+18
  SD       1.4461131060123312e+20
  VARIANCE        2.091243115380632e+40

  Erros found (line, value): [(182, 'ABBA\n'), (228, 'ERROR\n')]
  Execution and computation time: 1.9184 seconds
  === Analysis finished ===
```

convertNumbers.py

```
● (venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python convertNumbers.py ./P2/TC1.txt

  ===   Starting analysis ===
  CONVERTION TABLE:
  NUMBER  TC1       BIN                 HEX
  1        6980368  11010101000001100010000  6A8310
  2        5517055  10101000010111011111111  542EFF
  3        1336159  101000110001101011111     14635F
  4        6750185  11001101111111111101001  66FFE9
  5        1771937  110110000100110100001     1B09A1
  6        360952   1011000000111111000      581F8
  7        5672561  10101101000110011100001   568E71
  8        916583   11011111110001100111      DFC67
  9        2700138  1010010011001101101010   29336A
  10       9645053  1001001100101011111111101        932BFD
  11       1181110  1001000000010110110110    1205B6
```

...

```
  189      3852986  1110101100101010111010   3ACABA
  190      6263187  10111111001000110010011  5F9193
  191      5828308  10110001110111011010100  58EED4
  192      8058535  11110101110111010100111  7AF6A7
  193      9035191  100010011101110110110111         89DDB7
  194      7922103  11110001110000110110111  78E1B7
  195      9366003  100011101110100111110011         8EE9F3
  196      4555717  10001011000001111000101  4583C5
  197      3526753  11010111101000001100001   35D061
  198      3176815  11000001111001011011111   30796F
  199      858440   11010001100101001000      D1948
  200      2250854  1000100101100001100110   225866

  Erros found (line, value): []
  Execution and computation time: 0.0038 seconds
  === Analysis finished ===
```

```
● (venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python convertNumbers.py ./P2/TC2.txt

  ===   Starting analysis ===
  CONVERTION TABLE:
  NUMBER  TC2       BIN                 HEX
  1        7116776  11011001001011111101000  6C97E8
  2        1666340  110010110110100100100    196D24
  3        8886983  100001111001101011000111         879AC7
  4        839365   11001100111011000101      CCEC5
  5        924280   11100001101001111000      E1A78
  6        1026310  11111010100100000110      FA906
  7        1615293  110001010010110111101     18A5BD
  8        1063875  100000011101111000011     103BC3
  9        679035   10100101110001111011      A5C7B
  10       5201970  10011110110000000110010  4F6032
  11       593979   10010001000000111011     9103B
  12       801371   11000011101001011011      C3A5B
```

...

```
  188      101144   11000101100011000        18B18
  189      7471180  11100010000000001001100  72004C
  190      1932131  111010111101101100011     1D7B63
  191      8052752  11110101110000000010000  7AE010
  192      6359493  11000010000100111000101  6109C5
  193      1967646  111100000011000011110     1E061E
  194      6575052  11001000101001111001100  6453CC
  195      2323342  1000110111001110001110   23738E
  196      6735760  11001101100011110010000  66C790
  197      8895858  100001111011110101110010         87BD72
  198      4238091  10000010101011100001011  40AB0B
  199      7093069  11011000011101101001101  6C3B4D
  200      39       100111   27

  Erros found (line, value): []
  Execution and computation time: 0.0043 seconds
  === Analysis finished ===
```

```
(venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python convertNumbers.py ./P2/TC3.txt

===  Starting analysis ===
CONVERTION TABLE:
NUMBER  TC3      BIN        HEX
1       -39      1111011001     FFFFFFFFD9
2       -36      1111011100     FFFFFFFFDC
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
10      33       100001   21
11      12       1100     C
12      -6       1111111010     FFFFFFFFFA
```

...

```
188     33       100001   21
189     -10      1111110110     FFFFFFFFF6
190     47       101111   2F
191     47       101111   2F
192     -13      1111110011     FFFFFFFFF3
193     -32      1111100000     FFFFFFFFE0
194     1        1        1
195     1        1        1
196     -25      1111100111     FFFFFFFFE7
197     -33      1111011111     FFFFFFFFDF
198     16       10000    10
199     17       10001    11
200     4        100      4

Erros found (line, value): []
Execution and computation time: 0.0039 seconds
=== Analysis finished ===
```

```
● (venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python convertNumbers.py ./P2/TC4.txt

===  Starting analysis ===
CONVERTION TABLE:
NUMBER  TC4     BIN       HEX
1       -39     1111011001       FFFFFFFFD9
2       -36     1111011100       FFFFFFFFDC
3       8       1000     8
4       34      100010   22
5       17      10001    11
6       49      110001   31
7       5       101      5
8       0       0        0
9       33      100001   21
10      12      1100     C
11      -6      1111111010       FFFFFFFFFA
12      27      11011    1B
13      -4      1111111100       FFFFFFFFFC
14      -38     1111011010       FFFFFFFFDA
15      26      11010    1A
16      49      110001   31
17      29      11101    1D
18      42      101010   2A
19      -16     1111110000       FFFFFFFFF0
20      34      100010   22
21      20      10100    14
22      0       0        0
23      25      11001    19
24      45      101101   2D
25      3       11       3
26      -46     1111010010       FFFFFFFFD2
27      -46     1111010010       FFFFFFFFD2
28      29      11101    1D
29      33      100001   21
30      29      11101    1D
31      26      11010    1A
32      -5      1111111011       FFFFFFFFFB
33      -36     1111011100       FFFFFFFFDC
34      12      1100     C
35      45      101101   2D
36      -50     1111001110       FFFFFFFFCE
37      0       0        0
38      -6      1111111010       FFFFFFFFFA

Erros found (line, value): [(7, 'ABC\n'), (20, 'ERR\n'), (40, 'VAL')]
Execution and computation time: 0.0011 seconds
=== Analysis finished ===
```

wordCount.py

```
● (venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python wordCount.py ./P3/TC1.txt

  ===  Starting analysis ===
  COUNT TABLE:
  Row Labels       Count of TC1
  conservative     2
  mother  1
  tions   1
  pin     1
  sure    1
  regulatory       1
  shower  1
  uni     1
  dial    1
```

...

```
  collect 1
  lies    1
  seats   1
  worse   1
  guestbook        1
  influences       1
  kodak   1
  significance     1
  coastal 1
  Grand Total      100

  Erros found (line, value): []
  Execution and computation time: 0.0017 seconds
  === Analysis finished ===
```

```
● (venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python wordCount.py ./P3/TC2.txt

  ===  Starting analysis ===
  COUNT TABLE:
  Row Labels       Count of TC2
  lease   4
  brass   4
  revenues         4
  targeted         4
  inflation        4
  chain   4
  holders 4
  amongst 4
```

...

```
  faculty 1
  initiative       1
  variety 1
  ion     1
  interface        1
  remained         1
  icons   1
  excessive        1
  jon     1
  Grand Total      184

  Erros found (line, value): []
  Execution and computation time: 0.0011 seconds
  === Analysis finished ===
```

```
● (venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python wordCount.py ./P3/TC3.txt

=== Starting analysis ===
COUNT TABLE:
Row Labels      Count of TC3
notice  3
flood   2
pottery 2
charity 2
suggestion      2
pairs   2
blues   2
pipe    2
thumb   2
```

...

```
windsor 1
census  1
uc      1
declined        1
index   1
equipped        1
src     1
gradually       1
placing 1
Grand Total     500

Erros found (line, value): []
Execution and computation time: 0.0021 seconds
=== Analysis finished ===
```

```
● (venv) (base) dataalchemist@Jorges-MacBook-Pro A01793023_A4.2 % python wordCount.py ./P3/TC4.txt

=== Starting analysis ===
COUNT TABLE:
Row Labels      Count of TC4
started 3
literally       2
ringtone        2
za      2
reached 2
crazy   2
javascript      2
annual  2
shown   2
```

...

```
replaced        1
calling 1
mailman 1
extent  1
corpus  1
sv      1
wishlist        1
expired 1
circular        1
Grand Total     1000

Erros found (line, value): []
Execution and computation time: 0.0031 seconds
=== Analysis finished ===
```

... (5) no se ve el header por exceso de lineas

```
proceeds        1
seo     1
pounds  1
suggesting      1
texas   1
postposted      1
realty  1
vaccine 1
relocation      1
Grand Total     5000

Erros found (line, value): []
Execution and computation time: 0.0135 seconds
=== Analysis finished ===
```