Instituto Tecnológico de Estudios Superiores de Monterrey



TC4017 Pruebas de Software y Aseguramiento de la Calidad

Semana 4 - Actividad 2 Ejercicio de Programación 1

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Introducción

El presente informe resume la ejecución de 3 ejercicios de programación en Python con el objetivo de implementar conceptos pruebas de software para el aseguramiento de calidad tomando como referencia principal el estándar de codificación para este lenguaje, PEP 8. Se reconocen los atributos principales de un estándar de codificación para identificar errores y su importancia para el aseguramiento de calidad en la construcción de sistemas de software.

Github Link: https://github.com/rzunick/MNA-Pruebas-de-Software-RDZ/tree/main/Tarea%203 Ejercicio%20de%20Programaci%C3%B3n

Ejercicio 1

Descripción

Programming	Description	Practice	Test Cases
Exercise			and
			Evidence
	Req1. The program shall be invoked from a command line. The program shall receive a file as parameter. The file will contain a list of items (presumable numbers). Req 2. The program shall compute all descriptive statistics from a file containing numbers. The results shall be print on a screen and on a file named StatisticsResults.txt. All computation MUST be calculated using the basic algorithms, not functions or libraries. The descriptive statistics are mean, median, mode, standard deviation, and variance. Req 3. The program shall include the mechanism to handle invalid data in the file. Errors should be displayed in the console and the execution must continue. Req 4. The name of the program shall be computeStatistics.py Req 5. The minimum format to invoke the program shall be as follows: python computeStatistics.py fileWithData.txt Req 6. The program shall manage files having from hundreds of items to thousands of items. Req 7. The program should include at the end of the execution and calculus of the data. This	Control structures Console Input output Mathematical computation File management Error handling	Record the execution. Use files included in the assignment.

Código Inicial

Se importan los módulos sys y time, que se utilizarán para trabajar con argumentos de línea de comandos y medir el tiempo de ejecución, respectivamente. Se define la clase ComputeStatistics, que contendrá métodos para inicializar variables, leer un archivo, calcular estadísticas, mostrar resultados y guardar resultados en un archivo.

```
import sys
import time

class ComputeStatistics:
    def __init__(self, filename):
        self.filename = filename
        self.data = []
        self.mean = None
        self.median = None
        self.mode = None
        self.node = None
        self.node = None
        self.variance = None
```

En el método __init__, se inicializan las variables de instancia de la clase, incluyendo el nombre del archivo, los datos del archivo y las estadísticas calculadas. Se define un nuevo método new_method, que inicializa la variable self.std_dev en None. Esta variable se utiliza más adelante en el cálculo de la desviación estándar.

El método read_file se encarga de abrir y leer el archivo especificado, convirtiendo cada línea en un número flotante y almacenándolo en la lista self.data.

El método compute_statistics realiza los cálculos de las estadísticas descriptivas, como la media, la mediana, la moda, la desviación estándar y la varianza, utilizando los datos almacenados en self.data. Adicionalmente se definen los métodos display_results y save_results_to_file muestran los resultados de las estadísticas calculadas en la consola y los guardan en un archivo llamado StatisticsResults.txt, respectivamente.

```
def compute_statistics(self):
    start_time = time.time()
   n = len(self.data)
   self.mean = sum(self.data) / n
   sorted_data = sorted(self.data)
   mid = n // 2
   if n % 2 == 0:
       self.median = (sorted_data[mid - 1] + sorted_data[mid]) / 2
       self.median = sorted_data[mid]
   counts = {}
    for num in self.data:
       counts[num] = counts.get(num, 0) + 1
   max_freq = max(counts.values())
   self.mode = [num for num, freq in counts.items() if freq == max_freq]
   self.std_dev = (sum((x - self.mean) ** 2 for x in self.data) / n) ** 0.5
    self.variance = self.std_dev ** 2
    end_time = time.time()
    return end_time - start_time
```

```
def display_results(self, elapsed_time):
    print("Descriptive Statistics:")
    print(f"Mean: {self.mean}")
    print(f"Median: {self.median}")
    print(f"Mode: {self.mode}")
    print(f"Standard Deviation: {self.std_dev}")
    print(f"Variance: {self.variance}")
    print(f"Time elapsed: {elapsed_time} seconds")
```

Finalmente, se verifica si el programa se está ejecutando como un script principal y si se proporciona el nombre del archivo de datos como un argumento de línea de comandos. Si no se proporciona el argumento correctamente, se muestra un mensaje de uso y se termina el programa.

```
def save_results_to_file(self, elapsed_time):
    with open("StatisticsResults.txt", 'w') as file:
        file.write("Descriptive Statistics:\n")
          file.write(f"Mean: {self.mean}\n")
          file.write(f"Median: {self.median}\n")
          file.write(f"Mode: {self.mode}\n")
          file.write(f"Standard Deviation: {self.std_dev}\n")
          file.write(f"Variance: {self.variance}\n")
          file.write(f"Time elapsed: {elapsed_time} seconds\n")
__name__ == "__main__":
 if len(sys.argv) != 2:
     print("Usage: python computeStatistics.py fileWithData.txt")
     sys.exit(1)
 filename = sys.argv[1]
 compute_stats = ComputeStatistics(filename)
 compute_stats.read_file()
 elapsed_time = compute_stats.compute_statistics()
 compute_stats.display_results(elapsed_time)
 compute_stats.save_results_to_file(elapsed_time)
```

Evaluación de Análisis de Errores PEP 8 con Pylint

```
Your code has been rated at 7.29/10
```

Se corrijen los puntos principales sugeridos a excepción del nombre del archivo ya que esta dentro de los requerimientos el nombre específico y los puntos sobre "filename" y "elapsed_time" from outer scope ya que es practica aceptable y un patrón común identificado por linters al usar código que utiliza argumentos en línea de comando.

```
PS C:\Users\rdzun\source\repos\computeStatistics\computeStatistics> pylint computeStatistics.py

************ Module computeStatistics
computeStatistics.py:1:0: C0103: Module name "computeStatistics" doesn't conform to snake_case naming style (invalid-name)
computeStatistics.py:1:0: C0114: Missing module docstring (missing-module-docstring)
computeStatistics.py:9:23: W0621: Redefining name 'filename' from outer scope (line 99) (redefined-outer-name)
computeStatistics.py:60:30: W0621: Redefining name 'elapsed_time' from outer scope (line 92) (redefined-outer-name)
computeStatistics.py:72:35: W0621: Redefining name 'elapsed_time' from outer scope (line 92) (redefined-outer-name)
 Your code has been rated at 9.26/10 (previous run: 8.97/10, +0.29)
```

Ejecución y Resultados

TC1

```
PS C:\Users\rdzun\source\repos\computeStatistics\computeStatistics> python computeStatistics.py TC1.txt
Descriptive Statistics:
Mean: 242.32
Median: 239.5
Mode: [393.0, 170.0]
Standard Deviation: 145.25810683056557
Variance: 21099.91759999997
Time elapsed: 0.0 seconds
```

TC2

```
PS C:\Users\rdzun\source\repos\computeStatistics\computeStatistics> python computeStatistics.py TC2.txt
Descriptive Statistics:
Mean: 250.7840161861406
Median: 247.0
Mode: [230.0]
Standard Deviation: 144.17131868884059
Variance: 20785.369132479234
Time elapsed: 0.0 seconds
```

```
C:\Users\rdzun\source\repos\computeStatistics\computeStatistics> python computeStatistics.py TC3.txt
Descriptive Statistics:
Mean: 249.77621989860583
Median: 249.0
Mode: [94.0]
Standard Deviation: 145.31784980917962
Variance: 21117.277473163285
Time elapsed: 0.015629053115844727 seconds
```

TC4

```
PS C:\Users\rdzun\source\repos\computeStatistics\computeStatistics> python computeStatistics.py TC4.txt
Descriptive Statistics:
Mean: 149.00267347908746
Median: 147.75
Mode: [123.75]
Standard Deviation: 130.41441961308894
Variance: 17007.920843018837
Time elapsed: 0.0020236968994140625 seconds
```

TC5

```
PS C:\Users\rdzun\source\repos\computeStatistics\computeStatistics> python computeStatistics.py TC5.txt
Invalid data found: ABA
Invalid data found: 23,45
Invalid data found: 11;54
Invalid data found: 11
Invalid data found: 10
Descriptive Statistics:
Mean: 241,49511400651465
Median: 241.0
Mode: [393.0, 19.0, 368.0, 290.0, 56.0, 11.0, 76.0, 215.0, 64.0, 375.0, 466.0, 277.0, 211.0, 46.0, 278.0, 170.0, 166.0, 96.0, 268.0]
Standard Deviation: 145.46484786056646
Variance: 21160.021963097748
Time elapsed: 0.0 seconds
```

TC6

```
PS C:\Users\rdzun\source\repos\computeStatistics\computeStatistics> python computeStatistics.py TC6.txt

Descriptive Statistics:

Mean: 1.8798659927977473+20

Median: 1.8898884099654934+20

Mode: [1.27620804531949e+20, 2.05822098385834e+20, 1.05867278696831e+20, 3.57674511627146e+20, 1.09807752334445e+20, 3.67439257917343e+20, 2.71512973294204e+20, 2.76213146410716e+20, 1.32747781405503e+20, 3.395115453854092e+20, 1.88716628557026e+20, 2.74593037664445e+20, 2.31943245646675e+20, 2.756397513470822e+2

9, 2.752150656661158e+20, 1.202137187407090+20, 2.6769298899153e+20, 3.46942809560793e+20, 2.83496772186932e+20, 1.60129076186253e+20, 2.829447755544438e+19, 1.37585740142468e+20, 2.7772786132418e+10, 2.7672513142548e+20, 7.38797718290324e+19, 1.23256994634098+20, 1.835691009028e+20, 1.34657300842663e+20, 1.0612090646664e+20, 1.16316845617989e+20, 1.49001192834105e+20, 1.82678113072057e+20, 1.71979368622282e+20, 6.86075254512001e+19, 3.09509698027978e+20, 3.6147

737e+20, 2.41065367375211e+20, 1.72480401956255e+20, 3.181860470909043e+20, 9.513367775544185e+19, 1.55851796415853e+20, 9.7846272376771e+19, 1.26696256258580

e+20, 1.018596100921601e+19, 7.06880177007566e+19, 9.40393914993699e+19, 2.33284883699042e+20, 6.03648766325317e+19]

Standard Deviation: 1.67382058017381e+20

Variance: 1.1539040697953065e+40

Time elapsed: 0.0 seconds
```

```
PS C:\Users\rdzun\source\repos\computeStatistics\computeStatistics> python computeStatistics.py TC7.txt
Invalid data found: ABBA
Invalid data found: ERROR
Descriptive Statistics:
Rean: 2.474673954997149e+20
Redian: 2.46648973874729e+20
Redian: 2.466489748749e+20
Redian: 2.466489748749999749e+20
Redian: 2.466489749999749e+20
Redian: 2.4664897499949749e+20
Redian: 2.466489749994749e+20
Redian: 2.46648949949749e+20
Redian: 2.46648949949749e+20
Redian: 2.46648949949749e+20
Redian: 2.46648949949749e+20
Redian: 2.46648949949749e+20
Redian: 2.466489499
```

Ejercicio 2

Descripción

Programming	Description	Practice	Test Cases and
Exercise			Evidence
2. Converter	Req1. The program shall be invoked from a command line. The program shall receive a file as parameter. The file will contain a list of items (presumable numbers). Req 2. The program shall convert the numbers to binary and hexadecimal base. The results shall be print on a screen and on a file named ConvertionResults.txt. All computation MUST be calculated using the basic algorithms, not functions or libraries. Req 3. The program shall include the mechanism to handle invalid data in the file. Errors should be displayed in the console and the execution must continue. Req 4. The name of the program shall be convertNumbers.py Req 5. The minimum format to invoke the program shall be as follows: python convertNumbers.py fileWithData.txt Req 6. The program shall manage files having from hundreds of items to thousands of items. Req 7. The program should include at the end of the execution the time elapsed for the execution and calculus of the data. This number shall be included in the results file and on the screen. Req 8. Be compliant with PEP8.	Control structures Console Input output Frror Handling Output Handling	Record the execution. Use files included in the assignment.

Código Inicial

Se importan los los módulos sys y time, que son necesarios para manejar argumentos de línea de comandos y para medir el tiempo de ejecución respectivamente. Se crea la función convert_to_binary_and_hex: para realizar la conversión de números a sus representaciones binarias y hexadecimales.

Se implementa un un bloque try-except para manejar posibles errores al abrir y leer el archivo especificado.

```
import time
def convert_to_binary_and_hex(filename):
         with open(filename, 'r') as file:
            data = file.readlines()
             data = [x.strip() for x in data]
             results = []
             for item in data:
                     num = int(item)
                    binary = bin(num)
                    hexadecimal = hex(num)
                    results.append((item, binary, hexadecimal))
                    print(f"Invalid data found: {item}. Skipping...")
            with open("ConversionResults.txt", 'w') as result_file:
                 for item, binary, hexadecimal in results:
                     result_file.write(f"{item}: Binary - {binary}, Hexadecimal - {hexadecimal}\n")
                    print(f"{item}: Binary - {binary}, Hexadecimal - {hexadecimal}")
     except FileNotFoundError:
         print("File not found.")
```

Después de limpiar los datos del archivo y almacenarlos en una lista, se inicializa una lista vacía llamada results para almacenar los resultados de la conversión. Luego, el código itera sobre cada elemento en la lista de datos, intentando convertirlos en números enteros. Si la conversión es exitosa, se calcula la representación binaria y hexadecimal de cada número y se agrega a la lista results. En caso de que un elemento no se pueda convertir a un número entero, se registra un mensaje de error y se omite ese elemento.

Una vez que se han procesado todos los elementos del archivo, el código abre un archivo de resultados llamado ConversionResults.txt en modo de escritura. Luego, itera sobre cada tupla en la lista results y escribe los resultados de la conversión en el archivo de resultados y los muestra en la consola.

```
if __name__ == "__main__":
    start_time = time.time()

if len(sys.argv) != 2:
    print("Usage: python convertNumbers.py fileWithData.txt")
    sys.exit(1)

filename = sys.argv[1]
    convert_to_binary_and_hex(filename)

end_time = time.time()
    elapsed_time = end_time - start_time
    print(f"Time elapsed: {elapsed_time} seconds.")

with open("ConversionResults.txt", 'a') as result_file:
    result_file.write(f"Time elapsed: {elapsed_time} seconds.\n")
```

Se obtiene el nombre del archivo del primer argumento de la línea de comandos y se llama a la función convert_to_binary_and_hex con ese nombre de archivo como argumento. Después de ejecutar la función, se registra el tiempo de finalización de la ejecución y se calcula el tiempo transcurrido. Finalmente, se imprime el tiempo transcurrido en la consola y se escribe en el archivo de resultados.

Evaluación de Análisis de Errores PEP 8 con Pylint

Se implementan las sugerencias de mejora de código principales y se obtiene como resultado final el siguiente análisis. Se consideran los mismos criterios de excepciones que en el ejercicio 1.

Ejecución y Resultados

TC 1

PS C:\Users\rdzun\source\repos\convertNumbers\convertNumbers> python 6980368: Binary - 0b11010101000001100010000, Hexadecimal - 0x6a8310 5517055: Binary - 0b10101000010111011111111, Hexadecimal - 0x542eff 1336159: Binary - 0b101000110001101011111. Hexadecimal - 0x14635f 6750185: Binary - 0b11001101111111111101001, Hexadecimal - 0x66ffe9 1771937: Binary - 0b110110000100110100001, Hexadecimal - 0x1b09a1 360952: Binary - 0b1011000000111111000, Hexadecimal - 0x581f8 5672561: Binary - 0b10101101000111001110001, Hexadecimal - 0x568e71 916583: Binary - 0b11011111110001100111, Hexadecimal - 0xdfc67 2700138: Binary - 0b1010010011001101101010, Hexadecimal - 0x29336a 9645053; Binary - 0b1001001100101111111101, Hexadecimal - 0x932bfd 1181110: Binary - 0b100100000010110110110, Hexadecimal - 0x1205b6 1492185: Binary - 0b101101100010011011001, Hexadecimal - 0x16c4d9 4018595: Binary - 0b1111010101000110100011, Hexadecimal - 0x3d51a3 7654888: Binary - 0b11101001100110111101000, Hexadecimal - 0x74cde8 7062453: Binary - 0b11010111100001110110101, Hexadecimal - 0x6bc3b5 2478010: Binary - 0b1001011100111110111010, Hexadecimal - 0x25cfba 6134768: Binary - 0b101110110011011111110000. Hexadecimal - 0x5d9bf0 8420417: Binary - 0b10000000111110001000001, Hexadecimal - 0x807c41 2917489: Binary - 0b1011001000010001110001. Hexadecimal - 0x2c8471 3340773: Binary - 0b11001011111001111100101, Hexadecimal - 0x32f9e5

1115956: Binary - 0b100010000011100110100, Hexadecimal - 0x110734 9172192: Binary - 0b1000101111111010011100000, Hexadecimal - 0x8bf4e0 6271996: Binary - 0b101111111011001111111100, Hexadecimal - 0x5fb3fc 8686939: Binary - 0b100001001000110101011011, Hexadecimal - 0x848d5b 50986: Binary - 0b1100011100101010, Hexadecimal - 0xc72a 9376410: Binary - 0b100011110001001010011010, Hexadecimal - 0x8f129a 5962327: Binary - 0b10110101111101001010111, Hexadecimal - 0x5afa57 7686891: Binary - 0b11101010100101011101011, Hexadecimal - 0x754aeb 6615183: Binary - 0b11001001111000010001111, Hexadecimal - 0x64f08f 1864844: Binary - 0b111000111010010001100, Hexadecimal - 0x1c748c 3329962: Binary - 0b1100101100111110101010, Hexadecimal - 0x32cfaa 3942794: Binary - 0b1111000010100110001010, Hexadecimal - 0x3c298a 2614836: Binary - 0b1001111110011000110100, Hexadecimal - 0x27e634 7406772: Binary - 0b1110001000010010110100, Hexadecimal - 0x7104b4 2384190: Binary - 0b1001000110000100111110, Hexadecimal - 0x24613e 398347: Binary - 0b110000101000001011, Hexadecimal - 0x6140b 8698503: Binary - 0b100001001011101010000111, Hexadecimal - 0x84ba87 9551696: Binary - 0b100100011011111101010000, Hexadecimal - 0x91bf50 1019556: Binary - 0b11111000111010100100, Hexadecimal - 0xf8ea4 1677430: Binary - 0b110011001100001110110, Hexadecimal - 0x199876 3479629: Binary - 0b1101010001100001001101, Hexadecimal - 0x35184d

9309008: Binary - 0b100011100000101101010000, Hexadecimal - 0x8e0b50 5266170: Binary - 0b10100000101101011111010, Hexadecimal - 0x505afa 4094340: Binary - 0b11111100111100110000100, Hexadecimal - 0x3e7984 1754055; Binary - 0b110101100001111000111, Hexadecimal - 0x1ac3c7 5861132: Binary - 0b10110010110111100001100, Hexadecimal - 0x596f0c 4471329: Binary - 0b10001000011101000100001. Hexadecimal - 0x443a21 8826052: Binary - 0b100001101010110011000100, Hexadecimal - 0x86acc4 7469325: Binary - 0b11100011111100100001101, Hexadecimal - 0x71f90d 1973172: Binary - 0b111100001101110110100, Hexadecimal - 0x1e1bb4 53145: Binary - 0b1100111110011001, Hexadecimal - 0xcf99 3897508: Binary - 0b1110110111100010100100, Hexadecimal - 0x3b78a4 7773386: Binary - 0b11101101101110011001010, Hexadecimal - 0x769cca 6089829: Binary - 0b10111001110110001100101, Hexadecimal - 0x5cec65 4223424: Binary - 0b10000000111000111000000. Hexadecimal - 0x4071c0 9761752: Binary - 0b100101001111001111011000, Hexadecimal - 0x94f3d8 7930799: Binary - 0b11110010000001110101111, Hexadecimal - 0x7903af 3597495: Binary - 0b1101101110010010110111, Hexadecimal - 0x36e4b7 9302948: Binary - 0b100011011111001110100100, Hexadecimal - 0x8df3a4 2288712: Binary - 0b1000101110110001001000, Hexadecimal - 0x22ec48 197187: Binary - 0b110000001001000011. Hexadecimal - 0x30243 5266939: Binary - 0b10100000101110111111011, Hexadecimal - 0x505dfb 221545: Binary - 0b110110000101101001, Hexadecimal - 0x36169 7957027; Binary - 0b11110010110101000100011, Hexadecimal - 0x796a23 3195361: Binary - 0b1100001100000111100001, Hexadecimal - 0x30c1e1 7106269: Binary - 0b11011000110111011011101, Hexadecimal - 0x6c6edd 9633312: Binary - 0b1001001011111111000100000, Hexadecimal - 0x92fe20 9713704: Binary - 0b100101000011100000101000, Hexadecimal - 0x943828 91925: Binary - 0b10110011100010101, Hexadecimal - 0x16715 4418686: Binary - 0b10000110110110001111110, Hexadecimal - 0x436c7e 9682250: Binary - 0b100100111011110101001010, Hexadecimal - 0x93bd4a 2583824: Binary - 0b1001110110110100010000, Hexadecimal - 0x276d10 4979126: Binary - 0b1001011111111001101101, Hexadecimal - 0x4bf9b6 6280954: Binary - 0b101111111010110111111010, Hexadecimal - 0x5fd6fa 1228610: Binary - 0b1001010111111101000010, Hexadecimal - 0x12bf42 705518: Binary - 0b10101100001111101110, Hexadecimal - 0xac3ee 1017653: Binary - 0b111111000011100110101. Hexadecimal - 0xf8735 500098: Binary - 0b1111010000110000010, Hexadecimal - 0x7a182 7210727: Binary - 0b11011100000011011100111, Hexadecimal - 0x6e06e7

4250898: Binary - 0b10000001101110100010010, Hexadecimal - 0x40dd12 4055028: Binary - 0b11110111011111111110100, Hexadecimal - 0x3ddff4 2754240: Binary - 0b1010100000011011000000, Hexadecimal - 0x2a06c0 452999: Binary - 0b1101110100110000111. Hexadecimal - 0x6e987 6831458: Binary - 0b11010000011110101100010, Hexadecimal - 0x683d62 207636; Binary - 0b1100101010100010100, Hexadecimal - 0x32b14 7280635: Binary - 0b11011110001011111111011, Hexadecimal - 0x6f17fb 3308937: Binary - 0b1100100111110110001001, Hexadecimal - 0x327d89 4303570: Binary - 0b100000110101010101010, Hexadecimal - 0x41aad2 8375055: Binary - 0b11111111100101100001111, Hexadecimal - 0x7fcb0f 1457960: Binary - 0b101100011111100101000, Hexadecimal - 0x163f28 5197625: Binary - 0b10011110100111100111001, Hexadecimal - 0x4f4f39 3144371: Binary - 0b1011111111101010110011, Hexadecimal - 0x2ffab3 6674138: Binary - 0b11001011101011011011010. Hexadecimal - 0x65d6da 2692106: Binary - 0b1010010001010000001010, Hexadecimal - 0x29140a 2276769: Binary - 0b1000101011110110100001, Hexadecimal - 0x22bda1 1940971: Binary - 0b111011001110111101011, Hexadecimal - 0x1d9deb 3288264: Binary - 0b1100100010110011001, Hexadecimal - 0x322cc8 4819803: Binary - 0b10010011000101101011011, Hexadecimal - 0x498b5b 9431005: Binary - 0b100011111110011111011101. Hexadecimal - 0x8fe7dd 3992019: Binary - 0b1111001110100111010011, Hexadecimal - 0x3ce9d3 8184782: Binary - 0b11111001110001111001110, Hexadecimal - 0x7ce3ce 2847975: Binary - 0b1010110111010011100111. Hexadecimal - 0x2b74e7 7891025: Binary - 0b11110000110100001010001, Hexadecimal - 0x786851 900082: Binary - 0b11011011101111110010, Hexadecimal - 0xdbbf2 1831532: Binary - 0b110111111001001101100, Hexadecimal - 0x1bf26c 8428253: Binary - 0b100000001001101011101, Hexadecimal - 0x809add 2905752: Binary - 0b1011000101011010011000, Hexadecimal - 0x2c5698 9763121: Binary - 0b100101001111100100110001, Hexadecimal - 0x94f931 257890: Binary - 0b111110111101100010, Hexadecimal - 0x3ef62 4699761: Binary - 0b10001111011011001110001, Hexadecimal - 0x47b671 359541: Binary - 0b1010111110001110101, Hexadecimal - 0x57c75 3446150: Binary - 0b1101001001010110000110, Hexadecimal - 0x349586 4246818: Binary - 0b10000001100110100100010, Hexadecimal - 0x40cd22 1848840: Binary - 0b111000011011000001000, Hexadecimal - 0x1c3608 938480: Binary - 0b11100101000111110000, Hexadecimal - 0xe51f0 227465: Binary - 0b110111100010001001, Hexadecimal - 0x37889 3923488: Binary - 0b1110111101111000100000, Hexadecimal - 0x3bde20

8915697: Binary - 0b100010000000101011110001, Hexadecimal - 0x880af1 4309094: Binary - 0b10000011100000001100110, Hexadecimal - 0x41c066 3891251: Binary - 0b1110110110000000110011, Hexadecimal - 0x3b6033 8627956; Binary - 0b100000111010011011110100, Hexadecimal - 0x83a6f4 5884613: Binary - 0b101100111001010100101, Hexadecimal - 0x59cac5 1659318: Binary - 0b110010101000110110110. Hexadecimal - 0x1951b6 1834855: Binary - 0b1101111111111101100111, Hexadecimal - 0x1bff67 3386751: Binary - 0b1100111010110101111111, Hexadecimal - 0x33ad7f 3000166: Binary - 0b1011011100011101100110, Hexadecimal - 0x2dc766 9135626: Binary - 0b100010110110011000001010, Hexadecimal - 0x8b660a 4869260: Binary - 0b10010100100110010001100, Hexadecimal - 0x4a4c8c 76550: Binary - 0b10010101100000110, Hexadecimal - 0x12b06 432271: Binary - 0b1101001100010001111, Hexadecimal - 0x6988f 251028: Binary - 0b111101010010010100. Hexadecimal - 0x3d494 7016218: Binary - 0b11010110000111100011010, Hexadecimal - 0x6b0f1a 6896099: Binary - 0b11010010011100111100011, Hexadecimal - 0x6939e3 8386350: Binary - 0b111111111111011100101110, Hexadecimal - 0x7ff72e 8637147: Binary - 0b1000001111001011011011, Hexadecimal - 0x83cadb 936705: Binary - 0b11100100101100000001, Hexadecimal - 0xe4b01 6602175: Binary - 0b11001001011110110111111. Hexadecimal - 0x64bdbf 1429181: Binary - 0b101011100111010111101, Hexadecimal - 0x15cebd 8395138: Binary - 0b10000000001100110000010, Hexadecimal - 0x801982 6132809: Binary - 0b101110110010100010010. Hexadecimal - 0x5d9449 5936917: Binary - 0b10110101001011100010101, Hexadecimal - 0x5a9715 2878578: Binary - 0b1010111110110001110010, Hexadecimal - 0x2bec72 158885: Binary - 0b10011011001010101, Hexadecimal - 0x26ca5 2441957: Binary - 0b1001010100001011100101, Hexadecimal - 0x2542e5 5914794: Binary - 0b1011010010000010101010, Hexadecimal - 0x5a40aa 3999272: Binary - 0b1111010000011000101000, Hexadecimal - 0x3d0628 3142897: Binary - 0b1011111111010011110001, Hexadecimal - 0x2ff4f1 8151159: Binary - 0b111111000110000001110111, Hexadecimal - 0x7c6077 5147564: Binary - 0b10011101000101110101100, Hexadecimal - 0x4e8bac 4595374: Binary - 0b10001100001111010101110, Hexadecimal - 0x461eae 4234951: Binary - 0b10000001001111011000111, Hexadecimal - 0x409ec7 7880605: Binary - 0b11110000011111110011101, Hexadecimal - 0x783f9d 7009921: Binary - 0b11010101111011010000001, Hexadecimal - 0x6af681 695580: Binary - 0b10101001110100011100, Hexadecimal - 0xa9d1c

7370443: Binary - 0b11100000111011011001011, Hexadecimal - 0x7076cb

7921729: Binary - 0b11110001110000001000001, Hexadecimal - 0x78e041 8419625: Binary - 0b10000000111100100101001, Hexadecimal - 0x807929 7024080: Binary - 0b11010110010110111010000, Hexadecimal - 0x6b2dd0 3905988: Binary - 0b1110111001100111000100. Hexadecimal - 0x3b99c4 1767599: Binary - 0b110101111100010101111, Hexadecimal - 0x1af8af 935136; Binary - 0b1110010010011100000, Hexadecimal - 0xe44e0 635788: Binary - 0b10011011001110001100, Hexadecimal - 0x9b38c 8807719: Binary - 0b1000011001100100100111, Hexadecimal - 0x866527 317375: Binary - 0b1001101011110111111, Hexadecimal - 0x4d7bf 9975410: Binary - 0b100110000011011001110010, Hexadecimal - 0x983672 2727968: Binary - 0b101001101000000100000, Hexadecimal - 0x29a020 7444399: Binary - 0b11100011001011110101111, Hexadecimal - 0x7197af 4065675: Binary - 0b1111100000100110001011, Hexadecimal - 0x3e098b 9925720; Binary - 0b100101110111010001011000, Hexadecimal - 0x977458 2293633: Binary - 0b10001011111111110000001, Hexadecimal - 0x22ff81 7734826: Binary - 0b11101100000011000101010, Hexadecimal - 0x76062a 1065463: Binary - 0b100000100000111110111, Hexadecimal - 0x1041f7 1105617: Binary - 0b100001101111011010001, Hexadecimal - 0x10ded1 5325800: Binary - 0b10100010100001111101000, Hexadecimal - 0x5143e8 3822527; Binary - 0b1110100101001110111111. Hexadecimal - 0x3a53bf 5503858: Binary - 0b10100111111101101110010, Hexadecimal - 0x53fb72 9214055: Binary - 0b100011001001100001100111, Hexadecimal - 0x8c9867 6521769: Binary - 0b11000111000001110101001, Hexadecimal - 0x6383a9 7923796: Binary - 0b11110001110100001010100, Hexadecimal - 0x78e854 5250236: Binary - 0b10100000001110010111100, Hexadecimal - 0x501cbc 1083154: Binary - 0b100001000011100010010, Hexadecimal - 0x108712 472141: Binary - 0b111001101001001101, Hexadecimal - 0x7344d 9597454: Binary - 0b100100100111001000001110, Hexadecimal - 0x92720e 1581679: Binary - 0b110000010001001101111, Hexadecimal - 0x18226f 656751: Binary - 0b10100000010101101111, Hexadecimal - 0xa056f 345464: Binary - 0b1010100010101111000, Hexadecimal - 0x54578 4281218: Binary - 0b10000010101001110000010, Hexadecimal - 0x415382 6558883: Binary - 0b11001000001010010100011, Hexadecimal - 0x6414a3 3852986: Binary - 0b11101011001010101111010, Hexadecimal - 0x3acaba 6263187: Binary - 0b101111111001000110010011, Hexadecimal - 0x5f9193 5828308: Binary - 0b10110001110111011010100, Hexadecimal - 0x58eed4 8058535: Binary - 0b1111010111101101010111, Hexadecimal - 0x7af6a7 9035191: Binary - 0b100010011101110110110111, Hexadecimal - 0x89ddb7

7922103: Binary - 0b1111000111000011011011, Hexadecimal - 0x78e1b7
9366003: Binary - 0b10001110110110111110011, Hexadecimal - 0x8ee9f3
4555717: Binary - 0b10001011000001111000101, Hexadecimal - 0x4583c5
3526753: Binary - 0b1101011101000001100001, Hexadecimal - 0x35d061

3176815: Binary - 0b1100000111100101101111, Hexadecimal - 0x30796f
858440: Binary - 0b11010001100101001000, Hexadecimal - 0xd1948
2250854: Binary - 0b1000100101100001100110, Hexadecimal - 0x225866
Time elapsed: 0.0 seconds.

TC 2

PS C:\Users\rdzun\source\repos\convertNumbers\convertNumbers> python convertNumbers.py TC2.txt

7116776: Binary - 0b110110010010111111101000, Hexadecimal - 0x6c97e8 1666340: Binary - 0b110010110110100100100, Hexadecimal - 0x196d24 8886983: Binary - 0b100001111001101011000111, Hexadecimal - 0x879ac7 839365: Binary - 0b11001100111011000101, Hexadecimal - 0xccec5 924280: Binary - 0b11100001101001111000, Hexadecimal - 0xe1a78 1026310: Binary - 0b11111010100100000110. Hexadecimal - 0xfa906 1615293: Binary - 0b110001010010110111101, Hexadecimal - 0x18a5bd 1063875: Binary - 0b100000011101111000011, Hexadecimal - 0x103bc3 679035: Binary - 0b10100101110001111011. Hexadecimal - 0xa5c7b 5201970: Binary - 0b10011110110000000110010, Hexadecimal - 0x4f6032 593979: Binary - 0b10010001000000111011, Hexadecimal - 0x9103b 801371: Binary - 0b11000011101001011011, Hexadecimal - 0xc3a5b 3796878: Binary - 0b1110011110111110001110, Hexadecimal - 0x39ef8e 7489201: Binary - 0b1110010010001101010001, Hexadecimal - 0x7246b1 9740020: Binary - 0b100101001001111011110100, Hexadecimal - 0x949ef4 9128737: Binary - 0b100010110100101100100001, Hexadecimal - 0x8b4b21 5473463: Binary - 0b10100111000010010110111, Hexadecimal - 0x5384b7 8701957: Binary - 0b10000100110010000000101, Hexadecimal - 0x84c805 8238050: Binary - 0b111110110110011111100010, Hexadecimal - 0x7db3e2 8679038: Binary - 0b100001000110111001111110, Hexadecimal - 0x846e7e 385912: Binary - 0b1011110001101111000, Hexadecimal - 0x5e378 5867340: Binary - 0b10110011000011101001100, Hexadecimal - 0x59874c 4894542: Binary - 0b10010101010111101001110, Hexadecimal - 0x4aaf4e 8999451: Binary - 0b100010010101001000011011, Hexadecimal - 0x89521b 4392535: Binary - 0b10000110000011001010111, Hexadecimal - 0x430657 2078131: Binary - 0b111111011010110110011, Hexadecimal - 0x1fb5b3 3070124: Binary - 0b1011101101100010101100, Hexadecimal - 0x2ed8ac 7451998: Binary - 0b11100011011010101011110, Hexadecimal - 0x71b55e 5635510: Binary - 0b101010111111101101101, Hexadecimal - 0x55fdb6 1233932: Binary - 0b100101101010000001100, Hexadecimal - 0x12d40c

6089867: Binary - 0b10111001110110010001011. Hexadecimal - 0x5cec8b

1792316: Binary - 0b1101101101100100111100, Hexadecimal - 0x1b593c 6298637: Binary - 0b1100000001110000001101. Hexadecimal - 0x601c0d 2408038: Binary - 0b1001001011111001100110, Hexadecimal - 0x24be66 8510100: Binary - 0b100000011101101010010100, Hexadecimal - 0x81da94 991581: Binary - 0b11110010000101011101, Hexadecimal - 0xf215d 6455739: Binary - 0b11000101000000110111011, Hexadecimal - 0x6281bb 7829175: Binary - 0b1110111011101101101111. Hexadecimal - 0x7776b7 6328931: Binary - 0b11000001001001001100011, Hexadecimal - 0x609263 9982305: Binary - 0b100110000101000101100001, Hexadecimal - 0x985161 2292022: Binary - 0b1000101111100100110110, Hexadecimal - 0x22f936 1070496: Binary - 0b100000101010110100000, Hexadecimal - 0x1055a0 8518360: Binary - 0b100000011111101011011000, Hexadecimal - 0x81fad8 6378470: Binary - 0b11000010101001111100110, Hexadecimal - 0x6153e6 7756258: Binary - 0b11101100101100111100010. Hexadecimal - 0x7659e2 7111767: Binary - 0b11011001000010001010111, Hexadecimal - 0x6c8457 2685897; Binary - 0b1010001111101111001001, Hexadecimal - 0x28fbc9 617946: Binary - 0b1001011011011011010, Hexadecimal - 0x96dda 246280: Binary - 0b11110000100001000, Hexadecimal - 0x3c208 6075442: Binary - 0b10111001011010000110010, Hexadecimal - 0x5cb432 991323: Binary - 0b11110010000001011011, Hexadecimal - 0xf205b 6754202: Binary - 0b11001110000111110011010, Hexadecimal - 0x670f9a 3103178: Binary - 0b1011110101100111001010, Hexadecimal - 0x2f59ca 3228842: Binary - 0b1100010100010010101010. Hexadecimal - 0x3144aa 6786623: Binary - 0b11001111000111000111111, Hexadecimal - 0x678e3f 5329085: Binary - 0b10100010101000010111101, Hexadecimal - 0x5150bd 2334647: Binary - 0b1000111001111110110111, Hexadecimal - 0x239fb7 7253396: Binary - 0b11011101010110110010100, Hexadecimal - 0x6ead94 6516953: Binary - 0b11000110111000011011001, Hexadecimal - 0x6370d9 5972725: Binary - 0b10110110010001011110101, Hexadecimal - 0x5b22f5 5828037: Binary - 0b10110001110110111000101. Hexadecimal - 0x58edc5 6642265: Binary - 0b11001010101101001011001, Hexadecimal - 0x655a59 2559699: Binary - 0b1001110000111011010011, Hexadecimal - 0x270ed3 6597631: Binary - 0b11001001010101111111111. Hexadecimal - 0x64abff

5826202: Binary - 0b10110001110011010011010, Hexadecimal - 0x58e69a 4642335: Binary - 0b10001101101011000011111, Hexadecimal - 0x46d61f 1862900: Binary - 0b111000110110011110100, Hexadecimal - 0x1c6cf4 6039635; Binary - 0b10111000010100001010011, Hexadecimal - 0x5c2853 3358744: Binary - 0b110011010000000011000, Hexadecimal - 0x334018 4965249: Binary - 0b10010111100001110000001, Hexadecimal - 0x4bc381 6621475: Binary - 0b110010100001001001011, Hexadecimal - 0x650923 3336153: Binary - 0b11001011110011111011001, Hexadecimal - 0x32e7d9 1044743: Binary - 0b111111111000100000111, Hexadecimal - 0xff107 6201477: Binary - 0b10111101010000010000101, Hexadecimal - 0x5ea085 6297100: Binary - 0b1100000001011000001100, Hexadecimal - 0x60160c 885678: Binary - 0b11011000001110101110, Hexadecimal - 0xd83ae 8546891: Binary - 0b100000100110101001001011, Hexadecimal - 0x826a4b 6683923: Binary - 0b110010111111110100010011. Hexadecimal - 0x65fd13 7064472: Binary - 0b1101011110010111001, Hexadecimal - 0x6bcb98 3430021: Binary - 0b1101000101011010000101, Hexadecimal - 0x345685 9764122: Binary - 0b100101001111110100011010, Hexadecimal - 0x94fd1a 9958605: Binary - 0b1001011111111010011001, Hexadecimal - 0x97f4cd 1006022: Binary - 0b11110101100111000110, Hexadecimal - 0xf59c6 5276496: Binary - 0b10100001000001101010000. Hexadecimal - 0x508350 8876232: Binary - 0b100001110111000011001000, Hexadecimal - 0x8770c8 3364648: Binary - 0b1100110101011100101000, Hexadecimal - 0x335728 3539979: Binary - 0b1101100000010000001011. Hexadecimal - 0x36040b 3003857: Binary - 0b1011011101010111010001, Hexadecimal - 0x2dd5d1 4481634: Binary - 0b10001000110001001100010, Hexadecimal - 0x446262 9035781: Binary - 0b10001001111000000000101, Hexadecimal - 0x89e005 3767021: Binary - 0b1110010111101011101101, Hexadecimal - 0x397aed 4993901: Binary - 0b10011000011001101101101, Hexadecimal - 0x4c336d 8698377: Binary - 0b100001001011101000001001, Hexadecimal - 0x84ba09 4626501: Binary - 0b10001101001100001000101, Hexadecimal - 0x469845 1755352: Binary - 0b110101100100011011000, Hexadecimal - 0x1ac8d8 2755340: Binary - 0b1010100000101100001100, Hexadecimal - 0x2a0b0c 5150616: Binary - 0b10011101001011110011000, Hexadecimal - 0x4e9798 9345169: Binary - 0b100011101001100010001, Hexadecimal - 0x8e9891 848948: Binary - 0b11001111010000110100, Hexadecimal - 0xcf434 2708748: Binary - 0b1010010101010100001100. Hexadecimal - 0x29550c 8372451: Binary - 0b11111111100000011100011, Hexadecimal - 0x7fc0e3 3523015: Binary - 0b1101011100000111000111, Hexadecimal - 0x35c1c7

2624283: Binary - 0b101000000101100011011, Hexadecimal - 0x280b1b 8795348: Binary - 0b1000011000110101010100, Hexadecimal - 0x8634d4 2318100: Binary - 0b1000110101111100010100, Hexadecimal - 0x235f14 4750861: Binary - 0b10010000111111000001101. Hexadecimal - 0x487e0d 3770597: Binary - 0b1110011000100011100101, Hexadecimal - 0x3988e5 1053352: Binary - 0b100000001001010101000. Hexadecimal - 0x1012a8 833307: Binary - 0b11001011011100011011, Hexadecimal - 0xcb71b 4632526: Binary - 0b100011010101111111001110, Hexadecimal - 0x46afce 2212917: Binary - 0b1000011100010000110101, Hexadecimal - 0x21c435 5053189: Binary - 0b10011010001101100000101, Hexadecimal - 0x4d1b05 412218: Binary - 0b1100100101000111010, Hexadecimal - 0x64a3a 4901564: Binary - 0b10010101110010101111100, Hexadecimal - 0x4acabc 5094606: Binary - 0b10011011011110011001110, Hexadecimal - 0x4dbcce 8070285: Binary - 0b1111011001001001001101. Hexadecimal - 0x7b248d 6847905: Binary - 0b11010000111110110100001, Hexadecimal - 0x687da1 4311824: Binary - 0b10000011100101100010000, Hexadecimal - 0x41cb10 3009421: Binary - 0b1011011110101110001101, Hexadecimal - 0x2deb8d 1629105: Binary - 0b110001101101110110001, Hexadecimal - 0x18dbb1 8431899: Binary - 0b10000000101010100011011, Hexadecimal - 0x80a91b 7582456: Binary - 0b111001110110010111111000. Hexadecimal - 0x73b2f8 7332147: Binary - 0b110111111110000100110011, Hexadecimal - 0x6fe133 314183: Binary - 0b1001100101101000111, Hexadecimal - 0x4cb47 7632568: Binary - 0b11101000111011010111000, Hexadecimal - 0x7476b8 8161327: Binary - 0b11111001000100000101111, Hexadecimal - 0x7c882f 6961087: Binary - 0b110101000110111110111111, Hexadecimal - 0x6a37bf 6898282: Binary - 0b11010010100001001101010, Hexadecimal - 0x69426a 9749303: Binary - 0b10010100110001100110111, Hexadecimal - 0x94c337 4427419: Binary - 0b10000111000111010011011, Hexadecimal - 0x438e9b 4368829: Binary - 0b1000010101010101111101, Hexadecimal - 0x42a9bd 6439318: Binary - 0b11000100100000110010110, Hexadecimal - 0x624196 6473603: Binary - 0b11000101100011110000011, Hexadecimal - 0x62c783 6446249: Binary - 0b1100010010111001010101, Hexadecimal - 0x625ca9 9818836: Binary - 0b100101011101001011010100, Hexadecimal - 0x95d2d4 9438069: Binary - 0b10010000000001101110101, Hexadecimal - 0x900375 2809499: Binary - 0b1010101101111010011011, Hexadecimal - 0x2ade9b 3460304: Binary - 0b1101001100110011010000, Hexadecimal - 0x34ccd0 8430904: Binary - 0b10000001010010100111000, Hexadecimal - 0x80a538 9774785: Binary - 0b100101010010011011000001, Hexadecimal - 0x9526c1

9560603: Binary - 0b100100011110001000011011, Hexadecimal - 0x91e21b 3440732: Binary - 0b110100100000001011100, Hexadecimal - 0x34805c 7053263: Binary - 0b110101111001111111001111, Hexadecimal - 0x6b9fcf 287398: Binary - 0b1000110001010100110. Hexadecimal - 0x462a6 4043644: Binary - 0b1111011011001101111100, Hexadecimal - 0x3db37c 2943820; Binary - 0b1011001110101101001100, Hexadecimal - 0x2ceb4c 9030962: Binary - 0b1000100111001101100110, Hexadecimal - 0x89cd32 7537540: Binary - 0b11100110000001110000100, Hexadecimal - 0x730384 7203657: Binary - 0b11011011110101101001001, Hexadecimal - 0x6deb49 5639400: Binary - 0b10101100000110011101000, Hexadecimal - 0x560ce8 9448142: Binary - 0b10010000010101011001110, Hexadecimal - 0x902ace 9954392: Binary - 0b100101111110010001011000, Hexadecimal - 0x97e458 2856859: Binary - 0b10101111001011110011011, Hexadecimal - 0x2b979b 1332118: Binary - 0b101000101001110010110. Hexadecimal - 0x145396 6984725: Binary - 0b11010101001010000010101, Hexadecimal - 0x6a9415 1925762: Binary - 0b111010110001010000010, Hexadecimal - 0x1d6282 2138171: Binary - 0b1000001010000000111011, Hexadecimal - 0x20a03b 347447: Binary - 0b1010100110100110111, Hexadecimal - 0x54d37 8839390: Binary - 0b100001101110000011011110, Hexadecimal - 0x86e0de 3951652: Binary - 0b1111000100110000100100. Hexadecimal - 0x3c4c24 3755102: Binary - 0b1110010100110001011110, Hexadecimal - 0x394c5e 6867687: Binary - 0b11010001100101011100111, Hexadecimal - 0x68cae7 4383175: Binary - 0b10000101110000111000111, Hexadecimal - 0x42e1c7 7125508: Binary - 0b11011001011101000000100, Hexadecimal - 0x6cba04 7799732: Binary - 0b11101110000001110110100, Hexadecimal - 0x7703b4 8784156: Binary - 0b10000110000100100011100, Hexadecimal - 0x86091c 1372809: Binary - 0b101001111001010001001, Hexadecimal - 0x14f289 1327984: Binary - 0b101000100001101110000, Hexadecimal - 0x144370 9205087: Binary - 0b100011000111010101011111, Hexadecimal - 0x8c755f 6524241: Binary - 0b11000111000110101010001, Hexadecimal - 0x638d51 9316072: Binary - 0b100011100010011011101000, Hexadecimal - 0x8e26e8

127744: Binary - 0b11111001100000000, Hexadecimal - 0x1f300 8388820: Binary - 0b10000000000000011010100, Hexadecimal - 0x8000d4 6883557: Binary - 0b11010010000100011100101, Hexadecimal - 0x6908e5 2291239: Binary - 0b1000101111011000100111. Hexadecimal - 0x22f627 3101270: Binary - 0b1011110101001001010110, Hexadecimal - 0x2f5256 1382825: Binary - 0b10101000110011010101. Hexadecimal - 0x1519a9 9873376: Binary - 0b1001011010100111111100000, Hexadecimal - 0x96a7e0 6873500: Binary - 0b11010001110000110011100, Hexadecimal - 0x68e19c 8185634: Binary - 0b11111001110011100100010, Hexadecimal - 0x7ce722 2464786: Binary - 0b1001011001110000010010, Hexadecimal - 0x259c12 8387154: Binary - 0b11111111111101001010010, Hexadecimal - 0x7ffa52 5581444: Binary - 0b1010101010101010000100, Hexadecimal - 0x552a84 8097911: Binary - 0b11110111001000001110111, Hexadecimal - 0x7b9077 8882527: Binary - 0b10000111100010010111111, Hexadecimal - 0x87895f 8941444: Binary - 0b100010000110111110000100, Hexadecimal - 0x886f84 4942703: Binary - 0b1001011011011011011111, Hexadecimal - 0x4b6b6f 101144: Binary - 0b11000101100011000, Hexadecimal - 0x18b18 7471180: Binary - 0b1110010000000001001100, Hexadecimal - 0x72004c 1932131: Binary - 0b111010111101101100011, Hexadecimal - 0x1d7b63 8052752: Binary - 0b1111010111000000010000. Hexadecimal - 0x7ae010 6359493: Binary - 0b1100001000100111000101, Hexadecimal - 0x6109c5 1967646: Binary - 0b111100000011000011110, Hexadecimal - 0x1e061e 6575052: Binary - 0b11001000101001111001100, Hexadecimal - 0x6453cc 2323342: Binary - 0b1000110111001110001110, Hexadecimal - 0x23738e 6735760: Binary - 0b11001101100011110010000, Hexadecimal - 0x66c790 8895858: Binary - 0b100001111011110101110010, Hexadecimal - 0x87bd72 4238091: Binary - 0b10000001010101010001011, Hexadecimal - 0x40ab0b 7093069: Binary - 0b11011000011101101001101, Hexadecimal - 0x6c3b4d 39: Binary - 0b100111, Hexadecimal - 0x27 Time elapsed: 0.015542745590209961 seconds.

TC3

PS C:\Users\rdzun\source\repos\convertNumbers\convertNumbers> python convertNumbers.py TC3.txt

-39: Binary - -0b100111, Hexadecimal - -0x27

-36: Binary - -0b100100, Hexadecimal - -0x24

8: Binary - 0b1000, Hexadecimal - 0x8

34: Binary - 0b100010, Hexadecimal - 0x22

17: Binary - 0b10001, Hexadecimal - 0x1149: Binary - 0b110001, Hexadecimal - 0x31

5: Binary - 0b101, Hexadecimal - 0x5

39: Binary - 0b100111, Hexadecimal - 0x27

0: Binary - 0b0, Hexadecimal - 0x0

33: Binary - 0b100001, Hexadecimal - 0x21

12: Binary - 0b1100, Hexadecimal - 0xc	-47: Binary0b101111, Hexadecimal0x2f
-6: Binary0b110, Hexadecimal0x6	12: Binary - 0b1100, Hexadecimal - 0xc
27: Binary - 0b11011, Hexadecimal - 0x1b	-17: Binary0b10001, Hexadecimal0x11
-4: Binary0b100, Hexadecimal0x4	-31: Binary0b11111, Hexadecimal0x1f
-38: Binary0b100110, Hexadecimal0x26	-25: Binary0b11001, Hexadecimal0x19
26: Binary - 0b11010, Hexadecimal - 0x1a	-35: Binary0b100011, Hexadecimal0x23
49: Binary - 0b110001, Hexadecimal - 0x31	-18: Binary0b10010, Hexadecimal0x12
29: Binary - 0b11101, Hexadecimal - 0x1d	14: Binary - 0b1110, Hexadecimal - 0xe
42: Binary - 0b101010, Hexadecimal - 0x2a	37: Binary - 0b100101, Hexadecimal - 0x25
-16: Binary0b10000, Hexadecimal0x10	-8: Binary0b1000, Hexadecimal0x8
-28: Binary0b11100, Hexadecimal0x1c	-41: Binary0b101001, Hexadecimal0x29
34: Binary - 0b100010, Hexadecimal - 0x22	-50: Binary0b110010, Hexadecimal0x32
20: Binary - 0b10100, Hexadecimal - 0x14	-9: Binary0b1001, Hexadecimal0x9
0: Binary - 0b0, Hexadecimal - 0x0	2: Binary - 0b10, Hexadecimal - 0x2
25: Binary - 0b11001, Hexadecimal - 0x19	12: Binary - 0b1100, Hexadecimal - 0xc
45: Binary - 0b101101, Hexadecimal - 0x2d	-39: Binary0b100111, Hexadecimal0x27
3: Binary - 0b11, Hexadecimal - 0x3	-17: Binary0b10001, Hexadecimal0x11
-46: Binary0b101110, Hexadecimal0x2e	0: Binary - 0b0, Hexadecimal - 0x0
-46: Binary0b101110, Hexadecimal0x2e	27: Binary - 0b11011, Hexadecimal - 0x1b
29: Binary - 0b11101, Hexadecimal - 0x1d	28: Binary - 0b11100, Hexadecimal - 0x1c
33: Binary - 0b100001, Hexadecimal - 0x21	45: Binary - 0b101101, Hexadecimal - 0x2d
29: Binary - 0b11101, Hexadecimal - 0x1d	-44: Binary0b101100, Hexadecimal0x2c
26: Binary - 0b11010, Hexadecimal - 0x1a	28: Binary - 0b11100, Hexadecimal - 0x1c
-5: Binary0b101, Hexadecimal0x5	35: Binary - 0b100011, Hexadecimal - 0x23
-36: Binary0b100100, Hexadecimal0x24	-33: Binary0b100001, Hexadecimal0x21
12: Binary - 0b1100, Hexadecimal - 0xc	43: Binary - 0b101011, Hexadecimal - 0x2b
45: Binary - 0b101101, Hexadecimal - 0x2d	-4: Binary0b100, Hexadecimal0x4
-50: Binary0b110010, Hexadecimal0x32	23: Binary - 0b10111, Hexadecimal - 0x17
0: Binary - 0b0, Hexadecimal - 0x0	-49: Binary0b110001, Hexadecimal0x31
-6: Binary0b110, Hexadecimal0x6	49: Binary - 0b110001, Hexadecimal - 0x31
-39: Binary0b100111, Hexadecimal0x27	-7: Binary0b111, Hexadecimal0x7
35: Binary - 0b100011, Hexadecimal - 0x23	-38: Binary0b100110, Hexadecimal0x26
26: Binary - 0b11010, Hexadecimal - 0x1a	-45: Binary0b101101, Hexadecimal0x2d
-35: Binary0b100011, Hexadecimal0x23	5: Binary - 0b101, Hexadecimal - 0x5
-42: Binary0b101010, Hexadecimal0x2a	-21: Binary0b10101, Hexadecimal0x15
14: Binary - 0b1110, Hexadecimal - 0xe	26: Binary - 0b11010, Hexadecimal - 0x1a
-3: Binary0b11, Hexadecimal0x3	-2: Binary0b10, Hexadecimal0x2
22: Binary - 0b10110, Hexadecimal - 0x16	-24: Binary0b11000, Hexadecimal0x18

6: Binary - 0b110, Hexadecimal - 0x6	7: Binary - 0b111, Hexadecimal - 0x7
-45: Binary0b101101, Hexadecimal0x2d	-6: Binary0b110, Hexadecimal0x6
-4: Binary0b100, Hexadecimal0x4	-5: Binary0b101, Hexadecimal0x5
15: Binary - 0b1111, Hexadecimal - 0xf	5: Binary - 0b101, Hexadecimal - 0x5
0: Binary - 0b0, Hexadecimal - 0x0	47: Binary - 0b101111, Hexadecimal - 0x2f
-17: Binary0b10001, Hexadecimal0x11	23: Binary - 0b10111, Hexadecimal - 0x17
-35: Binary0b100011, Hexadecimal0x23	-48: Binary0b110000, Hexadecimal0x30
43: Binary - 0b101011, Hexadecimal - 0x2b	-24: Binary0b11000, Hexadecimal0x18
45: Binary - 0b101101, Hexadecimal - 0x2d	40: Binary - 0b101000, Hexadecimal - 0x28
-35: Binary0b100011, Hexadecimal0x23	-4: Binary0b100, Hexadecimal0x4
-8: Binary0b1000, Hexadecimal0x8	-18: Binary0b10010, Hexadecimal0x12
28: Binary - 0b11100, Hexadecimal - 0x1c	-19: Binary0b10011, Hexadecimal0x13
47: Binary - 0b101111, Hexadecimal - 0x2f	14: Binary - 0b1110, Hexadecimal - 0xe
34: Binary - 0b100010, Hexadecimal - 0x22	15: Binary - 0b1111, Hexadecimal - 0xf
-24: Binary0b11000, Hexadecimal0x18	1: Binary - 0b1, Hexadecimal - 0x1
-42: Binary0b101010, Hexadecimal0x2a	24: Binary - 0b11000, Hexadecimal - 0x18
-13: Binary0b1101, Hexadecimal0xd	-9: Binary0b1001, Hexadecimal0x9
14: Binary - 0b1110, Hexadecimal - 0xe	-50: Binary0b110010, Hexadecimal0x32
-45: Binary0b101101, Hexadecimal0x2d	18: Binary - 0b10010, Hexadecimal - 0x12
-35: Binary0b100011, Hexadecimal0x23	15: Binary - 0b1111, Hexadecimal - 0xf
27: Binary - 0b11011, Hexadecimal - 0x1b	30: Binary - 0b11110, Hexadecimal - 0x1e
-12: Binary0b1100, Hexadecimal0xc	44: Binary - 0b101100, Hexadecimal - 0x2c
-19: Binary0b10011, Hexadecimal0x13	9: Binary - 0b1001, Hexadecimal - 0x9
-20: Binary0b10100, Hexadecimal0x14	19: Binary - 0b10011, Hexadecimal - 0x13
-14: Binary0b1110, Hexadecimal0xe	33: Binary - 0b100001, Hexadecimal - 0x21
20: Binary - 0b10100, Hexadecimal - 0x14	41: Binary - 0b101001, Hexadecimal - 0x29
30: Binary - 0b11110, Hexadecimal - 0x1e	-24: Binary0b11000, Hexadecimal0x18
12: Binary - 0b1100, Hexadecimal - 0xc	43: Binary - 0b101011, Hexadecimal - 0x2b
-36: Binary0b100100, Hexadecimal0x24	48: Binary - 0b110000, Hexadecimal - 0x30
-47: Binary0b101111, Hexadecimal0x2f	-23: Binary0b10111, Hexadecimal0x17
-27: Binary0b11011, Hexadecimal0x1b	7: Binary - 0b111, Hexadecimal - 0x7
-3: Binary0b11, Hexadecimal0x3	28: Binary - 0b11100, Hexadecimal - 0x1c
6: Binary - 0b110, Hexadecimal - 0x6	8: Binary - 0b1000, Hexadecimal - 0x8
36: Binary - 0b100100, Hexadecimal - 0x24	-2: Binary0b10, Hexadecimal0x2
9: Binary - 0b1001, Hexadecimal - 0x9	37: Binary - 0b100101, Hexadecimal - 0x25
-16: Binary0b10000, Hexadecimal0x10	42: Binary - 0b101010, Hexadecimal - 0x2a
36: Binary - 0b100100, Hexadecimal - 0x24	-17: Binary0b10001, Hexadecimal0x11
-27: Binary0b11011, Hexadecimal0x1b	-6: Binary0b110, Hexadecimal0x6

36: Binary - 0b100100, Hexadecimal - 0x24	25: Binary - 0b11001, Hexadecimal - 0x19
22: Binary - 0b10110, Hexadecimal - 0x16	-25: Binary0b11001, Hexadecimal0x19
27: Binary - 0b11011, Hexadecimal - 0x1b	-5: Binary0b101, Hexadecimal0x5
31: Binary - 0b11111, Hexadecimal - 0x1f	33: Binary - 0b100001, Hexadecimal - 0x21
-47: Binary0b101111, Hexadecimal0x2f	-13: Binary0b1101, Hexadecimal0xd
-43: Binary0b101011, Hexadecimal0x2b	33: Binary - 0b100001, Hexadecimal - 0x21
0: Binary - 0b0, Hexadecimal - 0x0	-10: Binary0b1010, Hexadecimal0xa
27: Binary - 0b11011, Hexadecimal - 0x1b	47: Binary - 0b101111, Hexadecimal - 0x2f
30: Binary - 0b11110, Hexadecimal - 0x1e	47: Binary - 0b101111, Hexadecimal - 0x2f
12: Binary - 0b1100, Hexadecimal - 0xc	-13: Binary0b1101, Hexadecimal0xd
-15: Binary0b1111, Hexadecimal0xf	-32: Binary0b100000, Hexadecimal0x20
-19: Binary0b10011, Hexadecimal0x13	1: Binary - 0b1, Hexadecimal - 0x1
-42: Binary0b101010, Hexadecimal0x2a	1: Binary - 0b1, Hexadecimal - 0x1
-37: Binary0b100101, Hexadecimal0x25	-25: Binary0b11001, Hexadecimal0x19
31: Binary - 0b11111, Hexadecimal - 0x1f	-33: Binary0b100001, Hexadecimal0x21
-10: Binary0b1010, Hexadecimal0xa	16: Binary - 0b10000, Hexadecimal - 0x10
18: Binary - 0b10010, Hexadecimal - 0x12	17: Binary - 0b10001, Hexadecimal - 0x11
33: Binary - 0b100001, Hexadecimal - 0x21	4: Binary - 0b100, Hexadecimal - 0x4
-15: Binary0b1111, Hexadecimal0xf	Time elapsed: 0.01638960838317871 seconds.
17: Binary - 0b10001, Hexadecimal - 0x11	
TC 4	

TC 4	
PS C:\Users\rdzun\source\repos\convertNumbers\convertNumbers> python convertNumbers.py TC4.txt	-4: Binary0b100, Hexadecimal0x4
Invalid data found: ABC. Skipping	-38: Binary0b100110, Hexadecimal0x26
Invalid data found: ERR. Skipping	26: Binary - 0b11010, Hexadecimal - 0x1a 49: Binary - 0b110001, Hexadecimal - 0x31
Invalid data found: VAL. Skipping	29: Binary - 0b11101, Hexadecimal - 0x1d
-39: Binary0b100111, Hexadecimal0x27	42: Binary - 0b101010, Hexadecimal - 0x2a
-36: Binary0b100100, Hexadecimal0x24 8: Binary - 0b1000, Hexadecimal - 0x8	-16: Binary0b10000, Hexadecimal0x10
34: Binary - 0b100010, Hexadecimal - 0x22	34: Binary - 0b100010, Hexadecimal - 0x22
17: Binary - 0b10001, Hexadecimal - 0x11	20: Binary - 0b10100, Hexadecimal - 0x14
49: Binary - 0b110001, Hexadecimal - 0x31	0: Binary - 0b0, Hexadecimal - 0x0 25: Binary - 0b11001, Hexadecimal - 0x19
5: Binary - 0b101, Hexadecimal - 0x5	45: Binary - 0b101101, Hexadecimal - 0x2d
0: Binary - 0b0, Hexadecimal - 0x0	3: Binary - 0b11, Hexadecimal - 0x3
33: Binary - 0b100001, Hexadecimal - 0x21	-46: Binary0b101110, Hexadecimal0x2e
12: Binary - 0b1100, Hexadecimal - 0xc -6: Binary0b110, Hexadecimal0x6	-46: Binary0b101110, Hexadecimal0x2e
	29: Binary - 0b11101, Hexadecimal - 0x1d
	33: Binary - 0b100001, Hexadecimal - 0x21

29: Binary - 0b11101, Hexadecimal - 0x1d

26: Binary - 0b11010, Hexadecimal - 0x1a

-5: Binary - -0b101, Hexadecimal - -0x5

-36: Binary - -0b100100, Hexadecimal - -0x24

12: Binary - 0b1100, Hexadecimal - 0xc

45: Binary - 0b101101, Hexadecimal - 0x2d

-50: Binary - -0b110010, Hexadecimal - -0x32

0: Binary - 0b0, Hexadecimal - 0x0

-6: Binary - -0b110, Hexadecimal - -0x6

Time elapsed: 0.016268253326416016 seconds.

Ejercicio 3

Descripción

Programming	Description	Practice	Test Cases
Exercise	•		and Evidence
3. Count Words	Req1. The program shall be invoked from a command line. The program shall receive a file as parameter. The file will contain a words (presumable between spaces). Req 2. The program shall identify all distinct words and the frequency of them (how many times the word "X" appears in the file). The results shall be print on a screen and on a file named WordCountResults.txt. All computation MUST be calculated using the basic algorithms, not functions or libraries. Req 3. The program shall include the mechanism to handle invalid data in the file. Errors should be displayed in the console and the execution must continue. Req 4. The name of the program shall be wordCount.py Req 5. The minimum format to invoke the program shall be as follows: python wordCount.py fileWithData.txt Req 6. The program shall manage files having from hundreds of items to thousands of items. Req 7. The program should include at the end of the execution and calculus of the data. This number shall be included in the results file and on the screen. Req 8. Be compliant with PEP8.	Control structures Console Input output Frror Handling String manipulation	Record the execution. Use files included in the assignment.

Código Inicial

Se incluyen los módulos sys y time, que se utilizan para manejar la entrada y salida del sistema y medir el tiempo, respectivamente. Seguido se define una función llamada count_words(filename) que toma un parámetro filename (nombre del archivo) y devuelve un diccionario que contiene la frecuencia de cada palabra en el archivo. Este diccionario se inicializa como un diccionario vacío.

```
import sys
import time
def count_words(filename):
    word_count = {}
        with open(filename, 'r') as file:
            for line in file:
                words = line.split()
                for word in words:
                    word = word.strip()
                    if word:
                        word_count[word] = word_count.get(word, 0) + 1
    except FileNotFoundError:
        print(f"Error: File '{filename}' not found.")
        return None
    except Exception as e:
        print(f"An error occurred: {e}")
        return None
    return word_count
```

Dentro de la función count_words, se realiza la carga y apertura del archivo especificado por filename en modo lectura ('r'). Si el archivo no se encuentra, captura la excepción FileNotFoundError, imprime un mensaje de error indicando que el archivo no se encontró y devuelve None.

Si se produce cualquier otra excepción durante la lectura del archivo, se captura usando la cláusula except Exception as e, se imprime un mensaje de error genérico que indica que se produjo un error y devuelve None.

Si la apertura del archivo tiene éxito, se recorre cada línea del archivo y se divide en palabras utilizando el método split(). Luego, se itera sobre cada palabra, eliminando los espacios en blanco al principio y al final utilizando strip(). Se verifica si la palabra no está vacía y se actualiza el conteo en el diccionario word_count.

```
def write_results(word_count, elapsed_time):
    with open('WordCountResults.txt', 'w') as result_file:
        for word, count in word_count.items():
            result_file.write(f"{word}: {count}\n")
        result_file.write(f"Time elapsed: {elapsed_time} seconds\n")
```

La función count_words devuelve el diccionario word_count que contiene la frecuencia de cada palabra en el archivo.

Se define otra función llamada write_results(word_count, elapsed_time) que toma dos parámetros: word_count (el diccionario de frecuencia de palabras) y elapsed_time (el tiempo transcurrido durante la ejecución del programa). Esta función es responsable de escribir los resultados en un archivo llamado WordCountResults.txt.

Dentro de la función write_results, se abre el archivo WordCountResults.txt en modo escritura ('w') y se itera sobre cada par clave-valor en el diccionario word_count, escribiendo la palabra y su frecuencia en el archivo. También se escribe el tiempo transcurrido al final del archivo.

```
∃def main():
     if len(sys.argv) != 2:
         print("Usage: python wordCount.py fileWithData.txt")
     filename = sys.argv[1]
     start_time = time.time()
     word_count = count_words(filename)
     end_time = time.time()
     if word_count is not None:
         for word, count in word_count.items():
             print(f"{word}: {count}")
         elapsed_time = end_time - start_time
         print(f"Time elapsed: {elapsed_time} seconds")
         write_results(word_count, elapsed_time)
    __name__ == "__main__":
     main()
```

Evaluación de Análisis de Errores PEP 8 con Pylint

```
PS C:\Users\rdzun\source\repos\wordCount\wordCount> pylint wordCount.py
************ Module wordCount
wordCount.py:20:0: C0303: Trailing whitespace (trailing-whitespace)
wordCount.py:33:0: C0303: Trailing whitespace (trailing-whitespace)
wordCount.py:38:0: C0303: Trailing whitespace (trailing-whitespace)
wordCount.py:10: C0103: Module name "wordCount" doesn't conform to snake_case naming style (invalid-name)
wordCount.py:1:0: C0114: Missing module docstring (missing-module-docstring)
wordCount.py:17:11: W0703: Catching too general exception Exception (broad-except)
wordCount.py:7:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)
wordCount.py:7:4: C0103: Variable name "e" doesn't conform to snake_case naming style (invalid-name)
wordCount.py:23:0: C0116: Missing function or method docstring (missing-function-docstring)
wordCount.py:24:9: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)
wordCount.py:29:0: C0116: Missing function or method docstring (missing-function-docstring)
wordCount.py:29:0: C0116: Missing function or method docstring (missing-function-docstring)
      Your code has been rated at 7.00/10
```

Se implementan las sugerencias de mejora de código principales y se obtiene como resultado final el siguiente análisis. Se consideran los mismos criterios de excepciones que en los ejercicios anteriores.

```
PS C:\Users\rdzun\source\repos\wordCount\wordCount> pylint wordCount.py
         ****** Module wordCount
wordCount.py:8:56: C0303: Trailing whitespace (trailing-whitespace)
wordCount.py:1:0: C0103: Module name "wordCount" doesn't conform to snake_case naming style (invalid-name)
wordCount.py:1:0: C0114: Missing module docstring (missing-module-docstring)
wordCount.py:24:11: W0703: Catching too general exception Exception (broad-except)
Your code has been rated at 9.00/10 (previous run: 7.75/10, +1.25)
```

Ejecución y Resultados

mother: 1	uni: 1	father: 1	rl: 1
tions: 1	dial: 1	championship: 1	shadow: 1
pin: 1	photography: 1	vagina: 1	danish: 1
sure: 1	buying: 1	fonts: 1	seed: 1
regulatory: 1	firms: 1	sparc: 1	hiking: 1
shower: 1	nba: 1	explorer: 1	instrumentation: 1

introduces: 1	marathon: 1	liable: 1	andrews: 1
kinda: 1	permission: 1	ebony: 1	assessed: 1
nor: 1	cartridge: 1	wan: 1	adventures: 1
newer: 1	clear: 1	pubmed: 1	meals: 1
peter: 1	drum: 1	math: 1	mortality: 1
contamination: 1	trained: 1	tea: 1	club: 1
matters: 1	p: 1	craps: 1	mon: 1
bedding: 1	manufacturer: 1	gothic: 1	comm: 1
achievement: 1	leisure: 1	permissions: 1	blues: 1
password: 1	media: 1	recorded: 1	collect: 1
conservative: 2	journey: 1	cgi: 1	lies: 1
webcast: 1	anal: 1	confirm: 1	seats: 1
locks: 1	teaches: 1	hyundai: 1	worse: 1
cove: 1	customized: 1	exhaust: 1	guestbook: 1
taxes: 1	oakland: 1	malpractice: 1	influences: 1
could: 1	louis: 1	pens: 1	kodak: 1
pct: 1	tab: 1	potentially: 1	significance: 1
adequate: 1	consistent: 1	glenn: 1	coastal: 1
nightmare: 1	enhanced: 1	scoring: 1	Time elapsed: 0.0 seconds

conduct: 1	holders: 4	history: 1	fioricet: 1
kuwait: 1	amongst: 4	stores: 1	networks: 1
literacy: 1	monaco: 4	textiles: 1	deck: 1
table: 1	filme: 4	exams: 1	dean: 1
parent: 1	doc: 4	midi: 1	advantages: 1
olympic: 1	kingston: 4	correct: 1	out: 1
ht: 1	wood: 3	conferencing: 1	hub: 1
algebra: 1	pre: 3	touch: 1	italy: 1
lease: 4	ss: 1	comic: 1	objects: 1
brass: 4	norm: 1	container: 1	resort: 1
revenues: 4	females: 1	preparation: 1	priced: 1
targeted: 4	sq: 1	teen: 1	southampton: 1
inflation: 4	builders: 1	males: 1	munich: 1
chain: 4	newly: 1	correlation: 1	sorry: 1

delays: 1 outlook: 1 man: 1 afternoon: 1 croatia: 1 odd: 1 vice: 1 genome: 1 opens: 1 protest: 1 blowjob: 1 catalog: 1 galleries: 1 creates: 1 weight: 1 bases: 1 jeff: 1 prominent: 1 consisting: 1 boots: 1 clan: 1 minneapolis: 1 compatibility: 1 night: 1 purposes: 1 tiger: 1 prof: 1 unity: 1 come: 1 disposal: 1 jose: 1 cannon: 1 turkish: 1 ou: 1 classes: 1 hall: 1 vessels: 1 atomic: 1 answering: 1 chosen: 1 sweden: 1 violence: 1 hampshire: 1 sectors: 1 ignored: 1 j: 1 responsibilities: 1 cheese: 1 magazines: 1 frozen: 1 rio: 1 corp: 1 undo: 1 amounts: 1 instantly: 1 tba: 1 fill: 1 way: 1 filter: 1 str: 1 naturals: 1 win: 1

win: 1
attending: 1
returned: 1
anchor: 1
sides: 1

automation: 1

apache: 1

rule: 1

goals: 1

defence: 1

biz: 1

form: 1

feeding: 1

rentals: 1

practical: 1

steve: 1

serious: 1

mens: 1

faculty: 1

initiative: 1

variety: 1

interface: 1

remained: 1

excessive: 1

Time elapsed: 0.0 seconds

icons: 1

jon: 1

ion: 1

neighbors: 1	ip: 1	pursuit: 1	electro: 1
manual: 1	two: 1	suggestion: 2	transmit: 1
political: 1	gourmet: 1	breeds: 1	connections: 1
mozambique: 1	firms: 1	sorry: 1	scripting: 1
old: 1	chips: 1	however: 1	consulting: 1
holding: 1	twelve: 1	biol: 1	works: 1
fc: 1	somalia: 1	acquisition: 1	aw: 1
ford: 1	drama: 1	least: 1	impression: 1
comparable: 1	leaving: 1	decades: 1	ky: 1
industries: 1	continues: 1	wooden: 1	prove: 1
antiques: 1	poll: 1	nonprofit: 1	spreading: 1
waste: 1	led: 1	medical: 1	shannon: 1
voice: 1	pottery: 2	et: 1	cfr: 1
blond: 1	dominican: 1	wonder: 1	buddy: 1
z: 1	freebsd: 1	normally: 1	blues: 2
flood: 2	schools: 1	pairs: 2	rely: 1
enables: 1	bunch: 1	williams: 1	earth: 1
feels: 1	organisms: 1	residence: 1	pipe: 2
validity: 1	emotions: 1	pale: 1	bible: 1
midnight: 1	governments: 1	vibrators: 1	furthermore: 1
matters: 1	tires: 1	democratic: 1	desirable: 1
mortgage: 1	calendars: 1	affects: 1	allergy: 1
daughters: 1	charity: 2	celebration: 1	packard: 1
diana: 1	usa: 1	patterns: 1	lovers: 1
notice: 3	masturbating: 1	medicaid: 1	haiti: 1
postal: 1	complexity: 1	look: 1	brutal: 1
reproduced: 1	spoke: 1	covered: 1	sewing: 1
mpegs: 1	nicholas: 1	josh: 1	vs: 1
persistent: 1	virginia: 1	keen: 1	undergraduate: 1
butts: 1	mv: 1	an: 1	must: 1
ban: 1	chronic: 1	want: 1	hardcover: 1
underground: 1	biography: 1	possible: 1	advances: 1
hypothesis: 1	indigenous: 1	morocco: 1	tomato: 1
pace: 1	something: 1	tp: 1	cashiers: 1

britain: 1	remaining: 1	excellence: 1	slot: 1
thumb: 2	you: 1	specifies: 1	cancel: 1
magic: 1	lie: 1	dominant: 1	continually: 1
leeds: 1	initiative: 1	nights: 1	ecology: 1
poly: 1	walking: 1	ssl: 1	spending: 1
cricket: 1	reveals: 2	beds: 1	hour: 1
thickness: 1	dimension: 1	teenage: 1	considerations: 1
ambient: 1	texture: 1	graham: 1	сору: 2
enormous: 1	rare: 1	hazard: 1	aruba: 1
deny: 1	serum: 1	soap: 1	tear: 1
song: 1	dr: 1	register: 1	analyzed: 1
simpsons: 1	subsequent: 1	cream: 1	ms: 1
class: 1	california: 1	stays: 1	jelsoft: 1
ii: 1	fresh: 1	hand: 1	responsibility: 1
restructuring: 1	scanners: 1	resort: 1	proved: 1
gardens: 1	ri: 1	ht: 1	tablet: 1
russian: 1	pixel: 1	mrs: 1	memo: 1
introduced: 1	swap: 1	mozilla: 1	elephant: 1
strange: 1	nova: 1	financing: 1	detroit: 1
spain: 1	marks: 1	continued: 1	dozen: 1
cum: 1	dallas: 1	basin: 1	hairy: 1
philips: 1	chaos: 1	myth: 1	defines: 1
capital: 1	pci: 1	dependent: 1	strengthen: 1
manufacture: 1	holy: 1	marker: 1	catalogs: 1
shade: 1	republic: 1	diamond: 1	muslim: 1
aids: 1	vagina: 1	press: 1	husband: 1
endorsement: 1	ha: 1	realtors: 1	developments: 1
pediatric: 1	illustration: 1	monitored: 1	train: 1
facilitate: 1	modified: 1	que: 1	hurt: 2
dealing: 1	democrat: 1	zdnet: 1	ml: 1
motivated: 1	till: 1	for: 1	colin: 1
nationally: 1	susan: 1	prev: 1	species: 1
dress: 1	formula: 1	tracked: 1	steel: 1
apple: 1	benchmark: 1	locally: 1	modification: 1
coordinates: 1	markers: 1	formats: 1	easier: 1

sky: 1	investors: 1	closes: 1	challenges: 1
purpose: 1	forgotten: 1	tackle: 1	causing: 1
honest: 1	explains: 1	oxide: 1	owned: 1
phil: 1	reno: 1	significance: 1	providence: 1
energy: 1	likes: 1	forgot: 1	heated: 1
republicans: 1	honey: 1	widely: 1	evil: 1
bigger: 1	investing: 1	martin: 1	opportunity: 1
springs: 1	intro: 1	penn: 1	hardly: 1
confidential: 1	copying: 1	den: 1	sitemap: 1
internal: 1	skilled: 1	webshots: 1	talk: 1
wrote: 1	illinois: 1	fluid: 1	pink: 1
debut: 1	muze: 1	mounts: 1	merit: 1
edmonton: 1	archive: 1	mae: 1	order: 1
uses: 1	clock: 1	islamic: 1	declaration: 1
pitch: 1	explorer: 1	convenience: 1	mighty: 1
consolidated: 1	simultaneously: 1	contain: 1	mistress: 1
sub: 1	j: 1	fd: 1	restoration: 1
genetics: 1	overnight: 1	wave: 1	pissing: 1
spoken: 1	herein: 1	jar: 1	patents: 1
microsoft: 1	jet: 1	permission: 1	correctly: 1
crucial: 1	bring: 1	calculated: 1	deployment: 1
quest: 1	bangbus: 1	deemed: 1	milk: 1
monitor: 1	others: 1	bodies: 1	assembled: 1
women: 1	pos: 1	belt: 1	detailed: 1
rating: 1	ya: 1	recreational: 1	reggae: 1
sox: 1	guides: 1	elite: 1	previously: 1
tuesday: 1	discharge: 1	churches: 1	television: 1
may: 1	consultation: 1	forms: 1	lions: 1
loc: 1	built: 1	unless: 1	myself: 1
waiver: 1	sophisticated: 1	rpm: 1	otherwise: 1
icon: 1	kent: 1	bedrooms: 1	archived: 1
fy: 1	prayers: 1	stamp: 1	doc: 1
cyber: 1	christopher: 1	conservation: 1	removal: 1
process: 1	wma: 1	muslims: 1	guidance: 1
soviet: 1	gardening: 1	supplement: 1	soon: 1

cornwall: 1	aside: 1	debian: 1	butler: 1
environmental: 1	growing: 1	salaries: 1	motels: 1
contracting: 1	metropolitan: 1	buildings: 1	newfoundland: 1
cameron: 1	interactions: 1	utils: 1	cutting: 1
finger: 1	beverly: 1	pmc: 1	clocks: 1
unlikely: 1	purse: 1	manually: 1	infrared: 1
kuwait: 1	cycling: 1	purchases: 1	cowboy: 1
complicated: 1	pirates: 1	insert: 1	hormone: 1
philip: 1	recipients: 1	improving: 1	windsor: 1
helena: 1	kingdom: 1	devil: 1	census: 1
broker: 1	wal: 1	dodge: 1	uc: 1
bestiality: 1	reply: 1	cables: 1	declined: 1
developers: 1	examples: 1	std: 1	index: 1
org: 1	strengthening: 1	create: 1	equipped: 1
argued: 1	providing: 1	nipples: 1	src: 1
prime: 1	victory: 1	jane: 1	gradually: 1
geography: 1	commented: 1	holmes: 1	placing: 1
dns: 1	used: 1	tea: 1	Time elapsed: 0.0 seconds
TC 4			
disciplinary: 1	staff: 1	verse: 1	pdf: 1
continues: 1	booty: 1	draws: 1	phpbb: 1
literally: 2	energy: 1	notification: 1	drivers: 1
ringtone: 2	grid: 1	rolled: 1	postal: 1
parameter: 1	beach: 1	canal: 1	curtis: 1

shift: 1 tools: 1 held: 1 annual: 2 enhancement: 1 reached: 2 renewal: 1 newsletters: 1 isolation: 1 ethics: 1 erp: 1 man: 1 shown: 2 za: 2 mod: 1 oval: 1 starring: 1 preference: 1 own: 1 barrel: 1 cashiers: 1 compounds: 1 crazy: 2 languages: 1 maria: 1 fragrances: 1 cameras: 1 pictures: 1 began: 1 macintosh: 1 none: 1 favorite: 1 incredible: 1 dishes: 1 microsoft: 1 javascript: 2 stations: 1 month: 1 popular: 1 telecharger: 1 depends: 1 beginner: 1 corp: 1 gi: 1

smooth: 1	sake: 1	vacancies: 1	potential: 1
supplier: 2	cycles: 1	metallica: 1	lil: 1
patients: 1	consoles: 1	liable: 1	hybrid: 1
dsc: 1	cholesterol: 1	spending: 1	theoretical: 1
literacy: 1	oecd: 1	residential: 1	contributing: 1
token: 1	stays: 1	hosts: 1	gateway: 1
samoa: 1	just: 1	scanned: 1	biggest: 1
physical: 2	pose: 1	studies: 1	az: 1
dvds: 1	fought: 2	cuisine: 1	feelings: 1
beans: 1	delaware: 1	reviewing: 1	existence: 1
moss: 1	ieee: 1	commands: 1	shelter: 1
check: 1	ge: 1	gtk: 1	lows: 1
appreciate: 1	prefers: 1	roger: 1	continuously: 1
opponents: 1	dramatically: 2	killed: 1	pilot: 1
song: 1	folder: 1	contrary: 1	recovered: 1
distinct: 1	bio: 1	queensland: 1	vsnet: 1
baskets: 1	logging: 1	deferred: 1	myspace: 1
beads: 1	maiden: 2	dd: 1	foreign: 1
meta: 1	contains: 2	syndicate: 1	started: 3
amazon: 1	demographic: 1	hindu: 1	newspaper: 1
mexican: 1	dts: 1	cabinet: 1	core: 1
merchants: 1	dependence: 1	stretch: 1	respiratory: 1
checklist: 1	simple: 1	julian: 1	replacing: 1
deborah: 1	brooklyn: 1	partly: 1	ear: 1
adjustable: 1	admin: 1	est: 1	charts: 2
etc: 1	gd: 1	panels: 2	frequently: 1
nu: 1	warning: 1	banking: 1	reproduction: 1
im: 1	diffs: 1	racial: 2	stress: 1
company: 1	discovered: 1	represented: 1	legacy: 1
with: 1	adolescent: 1	defendant: 1	spent: 1
pubs: 1	regression: 1	subject: 1	spice: 1
worker: 1	dinner: 1	hint: 1	christian: 1
engineering: 1	albuquerque: 1	often: 1	safer: 1
based: 1	showed: 1	ii: 1	sword: 1
data: 2	variance: 1	soonest: 1	of: 1

ata: 1	investments: 1	bridal: 1	passwords: 1
yu: 1	goat: 1	boundary: 1	dresses: 1
math: 1	oven: 1	presentation: 1	tokyo: 1
navy: 2	preparation: 1	sexcam: 1	castle: 2
learned: 1	wound: 1	offer: 1	fridge: 1
brochure: 1	plenty: 1	pace: 1	freelance: 1
suggested: 1	bizrate: 1	far: 1	region: 1
tired: 2	pm: 1	danger: 1	lake: 1
prove: 1	approve: 1	dawn: 1	obituaries: 1
audit: 1	arthritis: 1	attention: 1	gl: 1
specifics: 1	detroit: 2	hospitals: 1	bloom: 1
stayed: 1	subsidiaries: 1	destroy: 1	sciences: 1
side: 1	coupled: 1	qualifications: 1	speed: 1
sought: 1	expansion: 1	sk: 1	ef: 1
decorative: 1	ben: 1	salvador: 1	illness: 1
edition: 1	humanities: 1	cloudy: 1	kernel: 1
runner: 1	teaching: 1	reload: 1	onion: 2
seal: 1	understanding: 1	start: 1	critics: 1
translate: 1	alternatives: 1	mountain: 1	considerable: 1
tennessee: 1	handed: 1	chase: 1	lawsuit: 1
below: 1	millennium: 1	periodically: 1	instances: 1
burn: 1	plays: 2	combination: 1	pocket: 1
bk: 1	honors: 1	once: 1	payable: 1
helen: 1	fs: 1	clearance: 1	entering: 1
farm: 2	fifth: 1	nightmare: 1	io: 1
nyc: 1	something: 1	via: 1	successfully: 1
predict: 1	clients: 2	mozambique: 1	ending: 1
proud: 1	cuts: 1	depend: 1	klein: 1
vault: 1	dec: 1	dave: 1	architects: 1
jeremy: 1	shemale: 1	lakes: 1	prostate: 1
newsletter: 1	distributions: 1	break: 1	designers: 1
leadership: 1	snake: 1	contacts: 1	output: 1
legislative: 1	folding: 1	couples: 1	infections: 1
analyst: 1	worry: 1	today: 1	book: 2
tower: 1	dispute: 1	jeff: 1	partnership: 1

eating: 1	yourself: 1	jeep: 1	cluster: 1
employee: 1	electrical: 1	burner: 1	threatening: 1
import: 1	informal: 1	sexy: 1	insulin: 1
discover: 1	deny: 1	work: 1	ar: 1
nice: 1	sparc: 2	dip: 1	hampton: 2
tragedy: 1	drinks: 1	vhs: 1	springs: 1
computational: 1	tall: 1	thunder: 1	nvidia: 2
diamonds: 2	ocean: 1	declaration: 1	tribe: 1
spotlight: 1	icons: 1	define: 1	humidity: 2
benchmark: 2	subjects: 1	scenarios: 1	scuba: 1
shut: 1	arabia: 1	saint: 1	reduced: 1
harbour: 1	plaintiff: 1	yellow: 1	ran: 1
procurement: 1	packet: 1	satellite: 1	hole: 1
glow: 1	conduct: 1	epic: 1	copying: 1
iii: 1	assessed: 1	win: 1	harper: 1
earn: 1	diamond: 1	wild: 1	bacterial: 1
warranties: 1	real: 1	organ: 1	closely: 1
portugal: 1	blade: 1	incorporated: 1	disposal: 1
forgot: 1	source: 1	observed: 1	miss: 1
hispanic: 1	proteins: 1	morocco: 2	sending: 1
korea: 1	mag: 1	fields: 1	hamburg: 1
silly: 1	locking: 1	broadcast: 1	tin: 1
picking: 1	ga: 1	css: 1	protocol: 1
detection: 1	watches: 1	knives: 1	tb: 1
great: 1	casa: 1	responsible: 1	char: 1
asian: 1	baby: 1	thriller: 1	roof: 1
kinds: 1	engaged: 1	effective: 1	latvia: 1
producing: 1	dam: 1	transform: 1	credits: 1
gifts: 1	productivity: 1	mh: 1	harold: 1
simulations: 1	car: 1	belkin: 1	puts: 1
vol: 1	forms: 1	stories: 1	chemicals: 1
salt: 2	nokia: 1	penalties: 1	buck: 1
install: 1	companies: 1	focus: 1	discuss: 1
tue: 1	france: 1	governor: 1	renaissance: 2
partial: 1	married: 1	metallic: 2	downloadable: 1

beautiful: 1	travelling: 1	producers: 1	longest: 1
wearing: 1	lookup: 1	organised: 1	church: 1
would: 1	recall: 1	protest: 1	limousines: 1
colon: 1	physiology: 1	unified: 1	рирру: 1
itself: 1	robust: 1	mesh: 1	processes: 1
coastal: 2	pointing: 1	currency: 1	consideration: 1
latin: 1	charity: 1	owen: 1	bike: 1
inf: 1	books: 1	explosion: 1	shipping: 1
marble: 1	weak: 1	enclosure: 1	blues: 1
mercury: 1	oman: 1	vital: 1	prophet: 1
previous: 1	somebody: 1	confidential: 2	develops: 1
ate: 1	np: 1	usps: 1	cartridges: 1
repeated: 1	entertainment: 1	similar: 1	deliver: 1
calvin: 1	the: 1	flickr: 1	iron: 1
specified: 1	treatment: 1	regional: 1	chelsea: 1
z: 1	drunk: 1	division: 1	southwest: 1
brake: 1	tell: 1	vernon: 1	milf: 1
ddr: 2	mary: 1	website: 1	expect: 1
increases: 1	hungarian: 1	glenn: 1	bryan: 1
fort: 1	levitra: 1	omega: 1	camel: 1
diseases: 2	dallas: 1	since: 2	cheap: 1
assigned: 1	cancel: 1	eds: 1	ftp: 1
sitting: 1	u: 1	poor: 2	variable: 1
preparing: 1	guard: 1	rr: 1	weapons: 1
opened: 1	circles: 1	sf: 1	lots: 1
swap: 1	impressed: 1	finds: 1	diversity: 1
dev: 1	gloves: 1	reactions: 1	classic: 1
gamespot: 1	dildo: 1	villages: 1	calibration: 1
little: 1	committees: 1	supporting: 1	yukon: 1
conversion: 1	registrar: 1	seniors: 1	jm: 1
vintage: 1	promises: 1	penalty: 1	wagon: 1
greece: 1	tender: 1	filed: 1	reply: 1
lab: 1	texas: 1	yet: 1	ion: 1
federal: 1	bolt: 1	linking: 1	morgan: 1
coordinate: 1	substances: 1	es: 1	tear: 1

australian: 1	bon: 1	question: 1	var: 1
everywhere: 1	winston: 1	buses: 1	occur: 1
labor: 1	streets: 1	leave: 1	explain: 1
nano: 1	biz: 1	collar: 1	grad: 1
switch: 1	timeline: 1	mongolia: 1	observe: 1
connector: 1	telecom: 1	outreach: 1	textile: 1
equivalent: 1	circuits: 1	spec: 1	ruby: 1
saints: 1	cv: 1	colleges: 1	nz: 1
christopher: 1	retailers: 1	talked: 1	operation: 1
lincoln: 1	words: 1	unfortunately: 1	concentrate: 1
consist: 2	represents: 1	grande: 1	performances: 1
finally: 1	beside: 1	modification: 2	begin: 1
rugs: 1	cet: 1	shoppercom: 1	trip: 1
however: 1	opera: 1	noise: 1	hurricane: 1
hu: 1	nc: 1	motivated: 1	have: 1
bend: 1	bt: 1	operates: 1	relief: 1
seat: 1	estimates: 1	gibraltar: 1	theaters: 1
sarah: 1	christ: 1	focused: 1	hawaii: 1
bedrooms: 1	challenges: 1	cst: 1	sandwich: 1
monroe: 1	linear: 1	ourselves: 1	grown: 1
zen: 1	invitations: 1	taking: 1	upon: 1
uh: 1	oklahoma: 1	medicines: 1	fucking: 2
marker: 1	leasing: 1	tits: 1	quarter: 1
macromedia: 1	beverage: 1	exists: 1	thirty: 1
elsewhere: 1	decent: 1	stay: 1	doctors: 1
rapid: 1	continually: 1	shirt: 1	tones: 1
berry: 1	focusing: 1	bingo: 1	luke: 1
dental: 1	poland: 1	killing: 1	dish: 1
cars: 1	partnerships: 1	prerequisite: 1	ur: 1
peaceful: 1	overnight: 1	namely: 1	flying: 1
wang: 1	earning: 2	weekly: 1	stuff: 1
consumption: 1	barrier: 1	exactly: 1	resumes: 1
ill: 1	rush: 1	bryant: 1	students: 1
espn: 1	hourly: 1	duties: 1	pb: 1
emergency: 1	biographies: 1	wav: 1	paxil: 1

browsers: 1	berlin: 1	pharmacy: 1	somehow: 1
indicating: 1	males: 1	reproductive: 1	calgary: 1
duncan: 1	washington: 1	chrome: 1	photograph: 1
lucy: 1	bible: 1	encryption: 1	strike: 1
turn: 1	wallpaper: 1	leu: 1	toll: 1
inns: 1	y: 1	recommend: 1	native: 1
openings: 1	queen: 1	collections: 1	or: 1
ultram: 1	trigger: 1	tire: 1	toe: 1
panel: 1	nearly: 1	invention: 1	programme: 1
tested: 1	negotiations: 1	pipes: 1	stage: 1
ribbon: 1	summer: 1	champions: 1	tiger: 1
usb: 1	escort: 1	blend: 1	effects: 1
walked: 1	mt: 1	cb: 1	items: 1
beaches: 1	pin: 1	retrieved: 1	corporate: 1
war: 1	practitioner: 1	vulnerability: 1	improvement: 1
calculated: 1	charger: 1	kansas: 1	stan: 1
prev: 1	tenant: 1	photographic: 1	durable: 1
zimbabwe: 2	monetary: 1	pioneer: 1	controller: 1
bra: 1	networking: 1	tiffany: 2	stewart: 1
patent: 1	risk: 1	pmc: 1	sr: 1
shore: 1	trap: 1	scheduling: 1	sculpture: 1
skills: 1	proposals: 1	dividend: 1	murder: 1
wv: 1	coordinates: 1	shark: 1	wedding: 1
sue: 1	lenders: 1	variations: 1	gathered: 1
hosting: 1	dos: 1	booking: 1	pas: 1
seasonal: 1	dried: 1	promoting: 1	placing: 1
caps: 1	cork: 1	virtual: 1	defense: 1
vermont: 1	settings: 1	slowly: 1	strict: 1
paper: 1	daughter: 1	strips: 1	bowling: 1
update: 1	reserve: 1	inn: 1	imperial: 1
nikon: 1	tactics: 1	much: 1	unlock: 1
tea: 1	deals: 1	fraud: 1	resolved: 1
uruguay: 1	mad: 1	daniel: 1	lately: 1
virus: 1	boobs: 1	drive: 1	protocols: 1
solo: 1	ex: 1	equipped: 1	direction: 1

voyuer: 1	slip: 1	offensive: 1	replaced: 1
regard: 1	midlands: 1	updating: 1	calling: 1
foods: 1	shemales: 1	interaction: 1	mailman: 1
ft: 1	walking: 1	received: 1	extent: 1
dating: 1	racks: 1	ma: 1	corpus: 1
building: 1	innocent: 1	hdtv: 1	sv: 1
estonia: 1	campaigns: 1	rates: 1	wishlist: 1
performs: 1	christina: 1	powerful: 1	expired: 1
equilibrium: 1	bulletin: 1	was: 1	circular: 1
sen: 1	synthesis: 1	computing: 1	Time elapsed: 0.0 seconds
tahoe: 1	so: 1	cells: 1	
disclose: 1	commerce: 1	contained: 1	
TC 5			
disciplinary: 1	reached: 2	none: 1	patients: 1
continues: 1	ethics: 1	javascript: 2	dsc: 1
literally: 2	mod: 1	popular: 1	literacy: 1
ringtone: 2	preference: 1	corp: 1	token: 1
parameter: 1	compounds: 1	pdf: 1	samoa: 1
parameter: 1 shift: 1	compounds: 1 fragrances: 1	pdf: 1 phpbb: 1	samoa: 1 physical: 2
shift: 1	fragrances: 1	phpbb: 1	physical: 2
shift: 1 enhancement: 1	fragrances: 1 macintosh: 1	phpbb: 1 drivers: 1	physical: 2 dvds: 1
shift: 1 enhancement: 1 man: 1	fragrances: 1 macintosh: 1 microsoft: 1	phpbb: 1 drivers: 1 postal: 1	physical: 2 dvds: 1 beans: 1
shift: 1 enhancement: 1 man: 1 za: 2	fragrances: 1 macintosh: 1 microsoft: 1 month: 1	phpbb: 1 drivers: 1 postal: 1 curtis: 1	physical: 2 dvds: 1 beans: 1 moss: 1
shift: 1 enhancement: 1 man: 1 za: 2 starring: 1	fragrances: 1 macintosh: 1 microsoft: 1 month: 1 beginner: 1	phpbb: 1 drivers: 1 postal: 1 curtis: 1 annual: 2	physical: 2 dvds: 1 beans: 1 moss: 1 check: 1
shift: 1 enhancement: 1 man: 1 za: 2 starring: 1 cashiers: 1	fragrances: 1 macintosh: 1 microsoft: 1 month: 1 beginner: 1 verse: 1	phpbb: 1 drivers: 1 postal: 1 curtis: 1 annual: 2 newsletters: 1	physical: 2 dvds: 1 beans: 1 moss: 1 check: 1 appreciate: 1
shift: 1 enhancement: 1 man: 1 za: 2 starring: 1 cashiers: 1 maria: 1	fragrances: 1 macintosh: 1 microsoft: 1 month: 1 beginner: 1 verse: 1 draws: 1	phpbb: 1 drivers: 1 postal: 1 curtis: 1 annual: 2 newsletters: 1 isolation: 1	physical: 2 dvds: 1 beans: 1 moss: 1 check: 1 appreciate: 1 opponents: 1
shift: 1 enhancement: 1 man: 1 za: 2 starring: 1 cashiers: 1 maria: 1 began: 1	fragrances: 1 macintosh: 1 microsoft: 1 month: 1 beginner: 1 verse: 1 draws: 1 notification: 1	phpbb: 1 drivers: 1 postal: 1 curtis: 1 annual: 2 newsletters: 1 isolation: 1 shown: 2	physical: 2 dvds: 1 beans: 1 moss: 1 check: 1 appreciate: 1 opponents: 1 song: 1
shift: 1 enhancement: 1 man: 1 za: 2 starring: 1 cashiers: 1 maria: 1 began: 1 incredible: 1	fragrances: 1 macintosh: 1 microsoft: 1 month: 1 beginner: 1 verse: 1 draws: 1 notification: 1 rolled: 1	phpbb: 1 drivers: 1 postal: 1 curtis: 1 annual: 2 newsletters: 1 isolation: 1 shown: 2 barrel: 1	physical: 2 dvds: 1 beans: 1 moss: 1 check: 1 appreciate: 1 opponents: 1 song: 1 distinct: 1
shift: 1 enhancement: 1 man: 1 za: 2 starring: 1 cashiers: 1 maria: 1 began: 1 incredible: 1 stations: 1	fragrances: 1 macintosh: 1 microsoft: 1 month: 1 beginner: 1 verse: 1 draws: 1 notification: 1 rolled: 1 canal: 1	phpbb: 1 drivers: 1 postal: 1 curtis: 1 annual: 2 newsletters: 1 isolation: 1 shown: 2 barrel: 1 languages: 1	physical: 2 dvds: 1 beans: 1 moss: 1 check: 1 appreciate: 1 opponents: 1 song: 1 distinct: 1 baskets: 1
shift: 1 enhancement: 1 man: 1 za: 2 starring: 1 cashiers: 1 maria: 1 began: 1 incredible: 1 stations: 1 depends: 1	fragrances: 1 macintosh: 1 microsoft: 1 month: 1 beginner: 1 verse: 1 draws: 1 notification: 1 rolled: 1 canal: 1 held: 1	phpbb: 1 drivers: 1 postal: 1 curtis: 1 annual: 2 newsletters: 1 isolation: 1 shown: 2 barrel: 1 languages: 1 pictures: 1	physical: 2 dvds: 1 beans: 1 moss: 1 check: 1 appreciate: 1 opponents: 1 song: 1 distinct: 1 baskets: 1 beads: 1
shift: 1 enhancement: 1 man: 1 za: 2 starring: 1 cashiers: 1 maria: 1 began: 1 incredible: 1 stations: 1 depends: 1 staff: 1	fragrances: 1 macintosh: 1 microsoft: 1 month: 1 beginner: 1 verse: 1 draws: 1 notification: 1 rolled: 1 canal: 1 held: 1 renewal: 1	phpbb: 1 drivers: 1 postal: 1 curtis: 1 annual: 2 newsletters: 1 isolation: 1 shown: 2 barrel: 1 languages: 1 pictures: 1 favorite: 1	physical: 2 dvds: 1 beans: 1 moss: 1 check: 1 appreciate: 1 opponents: 1 song: 1 distinct: 1 baskets: 1 beads: 1 meta: 1
shift: 1 enhancement: 1 man: 1 za: 2 starring: 1 cashiers: 1 maria: 1 began: 1 incredible: 1 stations: 1 depends: 1 staff: 1 booty: 1	fragrances: 1 macintosh: 1 microsoft: 1 month: 1 beginner: 1 verse: 1 draws: 1 notification: 1 rolled: 1 canal: 1 held: 1 renewal: 1 erp: 1	phpbb: 1 drivers: 1 postal: 1 curtis: 1 annual: 2 newsletters: 1 isolation: 1 shown: 2 barrel: 1 languages: 1 pictures: 1 favorite: 1 dishes: 1	physical: 2 dvds: 1 beans: 1 moss: 1 check: 1 appreciate: 1 opponents: 1 song: 1 distinct: 1 baskets: 1 beads: 1 meta: 1 amazon: 1

supplier: 2

deborah: 1

cameras: 1

tools: 1

adjustable: 1	admin: 1	est: 1	charts: 2
etc: 1	gd: 1	panels: 2	frequently: 1
nu: 1	warning: 1	banking: 1	reproduction: 1
im: 1	diffs: 1	racial: 2	stress: 1
company: 1	discovered: 1	represented: 1	legacy: 1
with: 1	adolescent: 1	defendant: 1	spent: 1
pubs: 1	regression: 1	subject: 1	spice: 1
worker: 1	dinner: 1	hint: 1	christian: 1
engineering: 1	albuquerque: 1	often: 1	safer: 1
based: 1	showed: 1	ii: 1	sword: 1
data: 2	variance: 1	soonest: 1	of: 1
sake: 1	vacancies: 1	potential: 1	ata: 1
cycles: 1	metallica: 1	lil: 1	yu: 1
consoles: 1	liable: 1	hybrid: 1	math: 1
cholesterol: 1	spending: 1	theoretical: 1	navy: 2
oecd: 1	residential: 1	contributing: 1	learned: 1
stays: 1	hosts: 1	gateway: 1	brochure: 1
just: 1	scanned: 1	biggest: 1	suggested: 1
pose: 1	studies: 1	az: 1	tired: 2
fought: 2	cuisine: 1	feelings: 1	prove: 1
delaware: 1	reviewing: 1	existence: 1	audit: 1
ieee: 1	commands: 1	shelter: 1	specifics: 1
ge: 1	gtk: 1	lows: 1	stayed: 1
prefers: 1	roger: 1	continuously: 1	side: 1
dramatically: 2	killed: 1	pilot: 1	sought: 1
folder: 1	contrary: 1	recovered: 1	decorative: 1
bio: 1	queensland: 1	vsnet: 1	edition: 1
logging: 1	deferred: 1	myspace: 1	runner: 1
maiden: 2	dd: 1	foreign: 1	seal: 1
contains: 2	syndicate: 1	started: 3	translate: 1
demographic: 1	hindu: 1	newspaper: 1	tennessee: 1
dts: 1	cabinet: 1	core: 1	below: 1
dependence: 1	stretch: 1	respiratory: 1	burn: 1
simple: 1	julian: 1	replacing: 1	bk: 1
brooklyn: 1	partly: 1	ear: 1	helen: 1

farm: 2	fifth: 1	nightmare: 1	io: 1
nyc: 1	something: 1	via: 1	successfully: 1
predict: 1	clients: 2	mozambique: 1	ending: 1
proud: 1	cuts: 1	depend: 1	klein: 1
vault: 1	dec: 1	dave: 1	architects: 1
jeremy: 1	shemale: 1	lakes: 1	prostate: 1
newsletter: 1	distributions: 1	break: 1	designers: 1
leadership: 1	snake: 1	contacts: 1	output: 1
legislative: 1	folding: 1	couples: 1	infections: 1
analyst: 1	worry: 1	today: 1	book: 2
tower: 1	dispute: 1	jeff: 1	partnership: 1
investments: 1	bridal: 1	passwords: 1	eating: 1
goat: 1	boundary: 1	dresses: 1	employee: 1
oven: 1	presentation: 1	tokyo: 1	import: 1
preparation: 1	sexcam: 1	castle: 2	discover: 1
wound: 1	offer: 1	fridge: 1	nice: 1
plenty: 1	pace: 1	freelance: 1	tragedy: 1
bizrate: 1	far: 1	region: 1	computational: 1
pm: 1	danger: 1	lake: 1	diamonds: 2
approve: 1	dawn: 1	obituaries: 1	spotlight: 1
arthritis: 1	attention: 1	gl: 1	benchmark: 2
detroit: 2	hospitals: 1	bloom: 1	shut: 1
subsidiaries: 1	destroy: 1	sciences: 1	harbour: 1
coupled: 1	qualifications: 1	speed: 1	procurement: 1
expansion: 1	sk: 1	ef: 1	glow: 1
ben: 1	salvador: 1	illness: 1	iii: 1
humanities: 1	cloudy: 1	kernel: 1	earn: 1
teaching: 1	reload: 1	onion: 2	warranties: 1
understanding: 1	start: 1	critics: 1	portugal: 1
alternatives: 1	mountain: 1	considerable: 1	forgot: 1
handed: 1	chase: 1	lawsuit: 1	hispanic: 1
millennium: 1	periodically: 1	instances: 1	korea: 1
plays: 2	combination: 1	pocket: 1	silly: 1
honors: 1	once: 1	payable: 1	picking: 1
fs: 1	clearance: 1	entering: 1	detection: 1

great: 1	casa: 1	responsible: 1	char: 1
asian: 1	baby: 1	thriller: 1	roof: 1
kinds: 1	engaged: 1	effective: 1	latvia: 1
producing: 1	dam: 1	transform: 1	credits: 1
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simulations: 1	car: 1	belkin: 1	puts: 1
vol: 1	forms: 1	stories: 1	chemicals: 1
salt: 2	nokia: 1	penalties: 1	buck: 1
install: 1	companies: 1	focus: 1	discuss: 1
tue: 1	france: 1	governor: 1	renaissance: 2
partial: 1	married: 1	metallic: 2	downloadable: 1
yourself: 1	jeep: 1	cluster: 1	beautiful: 1
electrical: 1	burner: 1	threatening: 1	wearing: 1
informal: 1	sexy: 1	insulin: 1	would: 1
deny: 1	work: 1	ar: 1	colon: 1
sparc: 2	dip: 1	hampton: 2	itself: 1
drinks: 1	vhs: 1	springs: 1	coastal: 2
tall: 1	thunder: 1	nvidia: 2	latin: 1
ocean: 1	declaration: 1	tribe: 1	inf: 1
icons: 1	define: 1	humidity: 2	marble: 1
subjects: 1	scenarios: 1	scuba: 1	mercury: 1
arabia: 1	saint: 1	reduced: 1	previous: 1
plaintiff: 1	yellow: 1	ran: 1	ate: 1
packet: 1	satellite: 1	hole: 1	repeated: 1
conduct: 1	epic: 1	copying: 1	calvin: 1
assessed: 1	win: 1	harper: 1	specified: 1
diamond: 1	wild: 1	bacterial: 1	z: 1
real: 1	organ: 1	closely: 1	brake: 1
blade: 1	incorporated: 1	disposal: 1	ddr: 2
source: 1	observed: 1	miss: 1	increases: 1
proteins: 1	morocco: 2	sending: 1	fort: 1
mag: 1	fields: 1	hamburg: 1	diseases: 2
locking: 1	broadcast: 1	tin: 1	assigned: 1
ga: 1	css: 1	protocol: 1	sitting: 1
watches: 1	knives: 1	tb: 1	preparing: 1

opened: 1	circles: 1	sf: 1	lots: 1
swap: 1	impressed: 1	finds: 1	diversity: 1
dev: 1	gloves: 1	reactions: 1	classic: 1
gamespot: 1	dildo: 1	villages: 1	calibration: 1
little: 1	committees: 1	supporting: 1	yukon: 1
conversion: 1	registrar: 1	seniors: 1	jm: 1
vintage: 1	promises: 1	penalty: 1	wagon: 1
greece: 1	tender: 1	filed: 1	reply: 1
lab: 1	texas: 1	yet: 1	ion: 1
federal: 1	bolt: 1	linking: 1	morgan: 1
coordinate: 1	substances: 1	es: 1	tear: 1
travelling: 1	producers: 1	longest: 1	australian: 1
lookup: 1	organised: 1	church: 1	everywhere: 1
recall: 1	protest: 1	limousines: 1	labor: 1
physiology: 1	unified: 1	puppy: 1	nano: 1
robust: 1	mesh: 1	processes: 1	switch: 1
pointing: 1	currency: 1	consideration: 1	connector: 1
charity: 1	owen: 1	bike: 1	equivalent: 1
books: 1	explosion: 1	shipping: 1	saints: 1
weak: 1	enclosure: 1	blues: 1	christopher: 1
oman: 1	vital: 1	prophet: 1	lincoln: 1
somebody: 1	confidential: 2	develops: 1	consist: 2
np: 1	usps: 1	cartridges: 1	finally: 1
entertainment: 1	similar: 1	deliver: 1	rugs: 1
the: 1	flickr: 1	iron: 1	however: 1
treatment: 1	regional: 1	chelsea: 1	hu: 1
drunk: 1	division: 1	southwest: 1	bend: 1
tell: 1	vernon: 1	milf: 1	seat: 1
mary: 1	website: 1	expect: 1	sarah: 1
hungarian: 1	glenn: 1	bryan: 1	bedrooms: 1
levitra: 1	omega: 1	camel: 1	monroe: 1
dallas: 1	since: 2	cheap: 1	zen: 1
cancel: 1	eds: 1	ftp: 1	uh: 1
u: 1	poor: 2	variable: 1	marker: 1
guard: 1	rr: 1	weapons: 1	macromedia: 1

elsewhere: 1	decent: 1	stay: 1	doctors: 1
rapid: 1	continually: 1	shirt: 1	tones: 1
berry: 1	focusing: 1	bingo: 1	luke: 1
dental: 1	poland: 1	killing: 1	dish: 1
cars: 1	partnerships: 1	prerequisite: 1	ur: 1
peaceful: 1	overnight: 1	namely: 1	flying: 1
wang: 1	earning: 2	weekly: 1	stuff: 1
consumption: 1	barrier: 1	exactly: 1	resumes: 1
ill: 1	rush: 1	bryant: 1	students: 1
espn: 1	hourly: 1	duties: 1	pb: 1
emergency: 1	biographies: 1	wav: 1	paxil: 1
bon: 1	question: 1	var: 1	browsers: 1
winston: 1	buses: 1	occur: 1	indicating: 1
streets: 1	leave: 1	explain: 1	duncan: 1
biz: 1	collar: 1	grad: 1	lucy: 1
timeline: 1	mongolia: 1	observe: 1	turn: 1
telecom: 1	outreach: 1	textile: 1	inns: 1
circuits: 1	spec: 1	ruby: 1	openings: 1
cv: 1	colleges: 1	nz: 1	ultram: 1
retailers: 1	talked: 1	operation: 1	panel: 1
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represents: 1	grande: 1	performances: 1	ribbon: 1
beside: 1	modification: 2	begin: 1	usb: 1
cet: 1	shoppercom: 1	trip: 1	walked: 1
opera: 1	noise: 1	hurricane: 1	beaches: 1
nc: 1	motivated: 1	have: 1	war: 1
bt: 1	operates: 1	relief: 1	calculated: 1
estimates: 1	gibraltar: 1	theaters: 1	prev: 1
christ: 1	focused: 1	hawaii: 1	zimbabwe: 2
challenges: 1	cst: 1	sandwich: 1	bra: 1
linear: 1	ourselves: 1	grown: 1	patent: 1
invitations: 1	taking: 1	upon: 1	shore: 1
oklahoma: 1	medicines: 1	fucking: 2	skills: 1
leasing: 1	tits: 1	quarter: 1	wv: 1
beverage: 1	exists: 1	thirty: 1	sue: 1

hosting: 1	dos: 1	booking: 1	pas: 1
seasonal: 1	dried: 1	promoting: 1	placing: 1
caps: 1	cork: 1	virtual: 1	defense: 1
vermont: 1	settings: 1	slowly: 1	strict: 1
paper: 1	daughter: 1	strips: 1	bowling: 1
update: 1	reserve: 1	inn: 1	imperial: 1
nikon: 1	tactics: 1	much: 1	unlock: 1
tea: 1	deals: 1	fraud: 1	resolved: 1
uruguay: 1	mad: 1	daniel: 1	lately: 1
virus: 1	boobs: 1	drive: 1	protocols: 1
solo: 1	ex: 1	equipped: 1	direction: 1
berlin: 1	pharmacy: 1	somehow: 1	voyuer: 1
males: 1	reproductive: 1	calgary: 1	regard: 1
washington: 1	chrome: 1	photograph: 1	foods: 1
bible: 1	encryption: 1	strike: 1	ft: 1
wallpaper: 1	leu: 1	toll: 1	dating: 1
y: 1	recommend: 1	native: 1	building: 1
queen: 1	collections: 1	or: 1	estonia: 1
trigger: 1	tire: 1	toe: 1	performs: 1
nearly: 1	invention: 1	programme: 1	equilibrium: 1
negotiations: 1	pipes: 1	stage: 1	sen: 1
summer: 1	champions: 1	tiger: 1	tahoe: 1
escort: 1	blend: 1	effects: 1	disclose: 1
mt: 1	cb: 1	items: 1	slip: 1
pin: 1	retrieved: 1	corporate: 1	midlands: 1
practitioner: 1	vulnerability: 1	improvement: 1	shemales: 1
charger: 1	kansas: 1	stan: 1	walking: 1
tenant: 1	photographic: 1	durable: 1	racks: 1
monetary: 1	pioneer: 1	controller: 1	innocent: 1
networking: 1	tiffany: 2	stewart: 1	campaigns: 1
risk: 1	pmc: 1	sr: 1	christina: 1
trap: 1	scheduling: 1	sculpture: 1	bulletin: 1
proposals: 1	dividend: 1	murder: 1	synthesis: 1
coordinates: 1	shark: 1	wedding: 1	so: 1
lenders: 1	variations: 1	gathered: 1	commerce: 1

offensive: 1

updating: 1

interaction: 1

received: 1

ma: 1

hdtv: 1

rates: 1

powerful: 1

was: 1

computing: 1

cells: 1

contained: 1

replaced: 1

calling: 1

mailman: 1

extent: 1

corpus: 1

sv: 1

wishlist: 1

expired: 1

circular: 1

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