

Instituto Tecnológico de Monterrey

Maestría en Inteligencia Artificial Aplicada

Curso: Pruebas de Software y aseguramiento de la Calidad

Clave: TC4017.10

Profesor Titular: Dr. Gerardo Padilla Zárate

Profesora Asistente: Mtra. Viridiana Rodríguez González

Estudiante: Francisco Javier Ramírez Arias

Matrícula: A01316379

##Actividad: Actividad 4.2

##Ejercicios de Programación #1

##Descripción: Cálculo de estadísticas.

```
## Esta linea nos permite guardar el codigo en  
## un archivo físico que nombraremos computeStatistics  
  
%%writefile computeStatistics.py  
  
## Nos indica elinterprete que va a utilizar para  
## Ejecutar el archivo, en este caso python3  
  
#!/usr/bin/env python3  
  
import sys      # Accesos a variables y funciones del interprete y del  
sistema  
import math     # Acceso a funciones matemáticas, indispensables para  
estadísticas  
import time     # Medición de tiempo de ejecución
```

```

##Función que abre un archivo, lo recorre línea por línea, convierte cada palabra
##en un número decimal. Si encuentra algo diferente a un número, lo ignora y avisa
##al usuario en lugar de detener el programa.

##Carga y valida datos numericos desde un archivo de texto
def read_numbers_from_file(file_path):
    numbers = []

    try:
        with open(file_path, "r", encoding="utf-8") as file:
            for line_number, line in enumerate(file, start=1):
                value = line.strip()
                if not value:
                    continue
                try:
                    numbers.append(float(value))
                except ValueError:
                    print(
                        f"Warning: Invalid data on line {line_number}"
                    )
            )
    except FileNotFoundError:
        print(f"Error: File '{file_path}' not found.")
        sys.exit(1)

    return numbers

#Función para el cálculo del promedio
def compute_mean(numbers):
    total = 0.0 #Inicializa la variable total
    for number in numbers: #Recorrido de la lista
        total += number #Suma el valor actual al total
    acumulado
    return total / len(numbers) #Regresa el promedio

#Función para el cálculo de la mediana
def compute_median(numbers):
    sorted_numbers = sorted(numbers) #Ordena los elementos de forma ascendente
    count = len(sorted_numbers) #Número de elementos en la lista
    mid = count // 2 #Calcula el punto medio

    #Si el total de elementos es impar la mediana es el número de en medio.
    #Si es total de elementos es par, se toman dos valores centrales y se promedia.
    if count % 2 == 0:
        return (sorted_numbers[mid - 1] + sorted_numbers[mid]) / 2
    return sorted_numbers[mid] #Regresa el valor de la mediana

```

```

#Cálculo de la moda
def compute_mode(numbers):
    #Diccionario para contar la frecuencia de cada número
    frequency = {}
    for number in numbers:
        if number in frequency:
            frequency[number] += 1
        else:
            frequency[number] = 1
    #Inicializacion de variables
    max_frequency = 0
    mode_value = None
    #Identifica el número con la frecuencia más alta
    for number, count in frequency.items():
        if count > max_frequency:
            max_frequency = count
            mode_value = number

    return mode_value    #Regresa el valor de la moda

#Cálculo de la varianza
def compute_variance(numbers, mean):
    total = 0.0    #Inicializa la variable
    total
    for number in numbers:    #Sumatoria de la diferencias
        de cuadrado
        total += (number - mean) ** 2
    return total / len(numbers)    #División entre el número
    total de elementos    #Regresa la varianza

#Cálculo de la desviacion estandar
def compute_standard_deviation(variance):
    #Cálculo de la desviación estandar a partir de la raiz cuadrada de
    la varianza
    return math.sqrt(variance)    #Regresa la desviación
    estandar

#Escritura de los resultados en archivo *.txt
def write_results(results):
    #Se utiliza 'w' para sobrescribir el archivo y utf-8 para
    compatibilidad
    with open("StatisticsResults.txt", "w", encoding="utf-8") as file:
        for key, value in results.items():
            file.write(f"{key}: {value}\n")    #Escribe cada
    estadística y salto de línea

#Entrada principal del programa, el cual se encarga de manejar la
lógica o secuencia de
#ejecución del programa

```

```

def main():

    start_time = time.perf_counter()  # Inicio de medición de tiempo

    # Manejo de argumentos del sistema
    if len(sys.argv) == 2:
        file_path = sys.argv[1]
    # Fallback para ejecución interactiva en Google Colab
    elif len(sys.argv) == 1:
        print("No input file provided as command-line argument. Using
default file 'TC1.txt'.")
        file_path = "TC2.txt" # Using an existing file from the
kernel's file system
    else:
        print("Usage: python computeStatistics.py <input_file>")
        sys.exit(1)

    # Lectura de los datos del archivo
    numbers = read_numbers_from_file(file_path)
    # Validación del contenido de los datos
    if not numbers:
        print("Error: No valid numeric data found or file was empty.")
        sys.exit(1)

    # Llamado de funciones, para obtener las estadísticas de los
datos.
    mean = compute_mean(numbers)                # Cálculo de
promedio
    median = compute_median(numbers)             # Cálculo de
mediana
    mode = compute_mode(numbers)                 # Cálculo de moda
    variance = compute_variance(numbers, mean)   # Cálculo de
varianza
    std_dev = compute_standard_deviation(variance) # Cálculo de
desviación estandar

    end_time = time.perf_counter()               # Fin de medición
    elapsed_time = end_time - start_time         # Tiempo total

    # Las estadísticas las colocamos en un diccionario, para su
respectiva impresión
    results = {
        "Count": len(numbers),
        "Mean": mean,
        "Median": median,
        "Mode": mode,
        "Variance": variance,
        "Standard Deviation": std_dev,
        "Execution Time (seconds)": elapsed_time,
    }
    # Impresión de los resultados en consola

```

```

for key, value in results.items():
    print(f"{key}: {value}")
# Escritura de los datos en archivo
write_results(results)

# Asegura que el script solo se ejecuta si se llama directamente
# y no se importa como módulo en otro archivo.
if __name__ == "__main__":
    main()

```

Overwriting computeStatistics.py

Estadísticas del archivo TC1.txt

```

!python computeStatistics.py TC1.txt

Warning: Invalid data on line 400 -> '405s'
Count: 399
Mean: 241.91228070175438
Median: 239.0
Mode: 393.0
Variance: 21086.30558853275
Standard Deviation: 145.21124470416453
Execution Time (seconds): 0.0003251499997531937

```

Estadísticas del archivo TC2.txt

```

!python computeStatistics.py TC2.txt

Count: 1977
Mean: 250.7840161861406
Median: 247.0
Mode: 230.0
Variance: 20785.369132479238
Standard Deviation: 144.17131868884059
Execution Time (seconds): 0.001116120000006049

```

Estadísticas del archivo TC3.txt

```

!python computeStatistics.py TC3.txt

Count: 12624
Mean: 249.77621989860583
Median: 249.0
Mode: 94.0
Variance: 21117.27747316329
Standard Deviation: 145.31784980917962
Execution Time (seconds): 0.010451209000166273

```

Estadísticas del archivo TC4.txt

```
!python computeStatistics.py TC4.txt  
  
Count: 12624  
Mean: 149.00267347908746  
Median: 147.75  
Mode: 123.75  
Variance: 17007.920843018837  
Standard Deviation: 130.41441961308894  
Execution Time (seconds): 0.006751970000095753
```

Estadísticas del archivo TC5.txt

```
!python computeStatistics.py TC5.txt  
  
Warning: Invalid data on line 5 -> 'ABA'  
Warning: Invalid data on line 155 -> '23,45'  
Warning: Invalid data on line 232 -> '11;54'  
Warning: Invalid data on line 239 -> 'll'  
Count: 307  
Mean: 241.49511400651465  
Median: 241.0  
Mode: 393.0  
Variance: 21160.021963097748  
Standard Deviation: 145.46484786056646  
Execution Time (seconds): 0.00037849000000278465
```

Estadísticas del archivo TC6.txt

```
!python computeStatistics.py TC6.txt  
  
Count: 3000  
Mean: 1.8790659927977473e+20  
Median: 1.88008049965543e+20  
Mode: 1.27620004531949e+20  
Variance: 1.1530904699530647e+40  
Standard Deviation: 1.0738205017381e+20  
Execution Time (seconds): 0.0018766200000754907
```

Estadísticas del archivo TC7.txt

```
!python computeStatistics.py TC7.txt  
  
Warning: Invalid data on line 183 -> 'ABBA'  
Warning: Invalid data on line 229 -> 'ERROR'  
Count: 12767  
Mean: 2.474673954997149e+20  
Median: 2.4664097307429e+20  
Mode: 1.57638329490099e+20
```

```
Variance: 2.0910793147136484e+40
Standard Deviation: 1.4460564700984703e+20
Execution Time (seconds): 0.007965049999711482
```

Instalación de Pylint

```
pip install pylint
```

```
Requirement already satisfied: pylint in
/usr/local/lib/python3.12/dist-packages (4.0.4)
Requirement already satisfied: astroid<=4.1.dev0,>=4.0.2 in
/usr/local/lib/python3.12/dist-packages (from pylint) (4.0.3)
Requirement already satisfied: dill>=0.3.6 in
/usr/local/lib/python3.12/dist-packages (from pylint) (0.3.8)
Requirement already satisfied: isort!=5.13,<8,>=5 in
/usr/local/lib/python3.12/dist-packages (from pylint) (7.0.0)
Requirement already satisfied: mccabe<0.8,>=0.6 in
/usr/local/lib/python3.12/dist-packages (from pylint) (0.7.0)
Requirement already satisfied: platformdirs>=2.2 in
/usr/local/lib/python3.12/dist-packages (from pylint) (4.5.1)
Requirement already satisfied: tomlkit>=0.10.1 in
/usr/local/lib/python3.12/dist-packages (from pylint) (0.13.3)
```

#Análisis del Código

```
!pylint computeStatistics.py

***** Module computeStatistics
computeStatistics.py:98:0: C0303: Trailing whitespace (trailing-
whitespace)
computeStatistics.py:124:0: C0303: Trailing whitespace (trailing-
whitespace)
computeStatistics.py:1:0: C0114: Missing module docstring (missing-
module-docstring)
computeStatistics.py:1:0: C0103: Module name "computeStatistics"
doesn't conform to snake_case naming style (invalid-name)
computeStatistics.py:16:0: C0116: Missing function or method docstring
(missing-function-docstring)
computeStatistics.py:38:0: C0116: Missing function or method docstring
(missing-function-docstring)
computeStatistics.py:45:0: C0116: Missing function or method docstring
(missing-function-docstring)
computeStatistics.py:57:0: C0116: Missing function or method docstring
(missing-function-docstring)
computeStatistics.py:77:0: C0116: Missing function or method docstring
(missing-function-docstring)
computeStatistics.py:84:0: C0116: Missing function or method docstring
(missing-function-docstring)
```

```
computeStatistics.py:89:0: C0116: Missing function or method docstring
(missing-function-docstring)
computeStatistics.py:97:0: C0116: Missing function or method docstring
(missing-function-docstring)
```

```
-----
Your code has been rated at 8.52/10 (previous run: 8.52/10, +0.00)
```

#Código Mejorado

```
## Esta linea nos permite guardar el codigo en
## un archivo físico que nombraremos computeStatistics

%%writefile computeStatistics.py

## Nos indica elinterprete que va a utilizar para
## Ejecutar el archivo, en este caso python3

#!/usr/bin/env python3

"""
Programa para el cálculo de estadísticas desde archivos de texto.

Este script procesa datos numéricos para obtener estadísticas como la
media,
mediana, moda, varianza y desviación estándar, cumpliendo con los
estándares
de limpieza y documentación de PEP 8. Los datos son obtenidos de
archivos *.txt.
"""

import sys      # Accesos a variables y funciones del interprete y del
sistema
import math     # Acceso a funciones matemáticas, indispensables para
estadísticas
import time     # Medición de tiempo de ejecución

##Función que abre un archivo, lo recorre línea por línea, convierte
cada palabra
##en un número decimal. Si encuentra algo diferente a un número, lo
ignora y avisa
##al usuario en lugar de detener el programa.

##Carga y valida datos numericos desde un archivo de texto
def read_numbers_from_file(file_path):
    """
    Carga y valida datos numéricos desde un archivo de texto.
    """
    numbers = []
```



```

try:
    with open(file_path, "r", encoding="utf-8") as file:
        for line_number, line in enumerate(file, start=1):
            value = line.strip()
            if not value:
                continue
            try:
                numbers.append(float(value))
            except ValueError:
                print(
                    f"Warning: Invalid data on line {line_number}"
                )
        except FileNotFoundError:
            print(f"Error: File '{file_path}' not found.")
            sys.exit(1)

    return numbers

#Definición de la función para el cálculo del promedio
def compute_mean(numbers):
    """
    Calcula el promedio de una lista de valores numéricos.
    """
    total = 0.0 #Inicializa la variable total
    for number in numbers: #Recorrido de la lista
        total += number #Suma el valor actual al total
    acumulado
    return total / len(numbers) #Regresa el promedio

#Función para el cálculo de la mediana
def compute_median(numbers):
    """
    Calcula la mediana de una lista de valores numéricos.
    """
    sorted_numbers = sorted(numbers) #Ordena los elementos de forma
    ascendente
    count = len(sorted_numbers) #Número de elementos en la lista
    mid = count // 2 #Calcula el punto medio

    #Si el total de elementos es impar la mediana es el número de en medio.
    #Si es total de elementos es par, se toman dos valores centrales y se
    promedia.
    if count % 2 == 0:
        return (sorted_numbers[mid - 1] + sorted_numbers[mid]) / 2
    return sorted_numbers[mid] #Regresa el valor de la mediana

#Cálculo de la moda
def compute_mode(numbers):

```

```

"""
Calcula la moda de una lista de valores numéricos.
"""
#Diccionario para contar la frecuencia de cada número
frequency = {}
for number in numbers:
    if number in frequency:
        frequency[number] += 1
    else:
        frequency[number] = 1
#Inicializacion de variables
max_frequency = 0
mode_value = None
#Identifica el número con la frecuencia más alta
for number, count in frequency.items():
    if count > max_frequency:
        max_frequency = count
        mode_value = number

return mode_value    #Regresa el valor de la moda

#Cálculo de la varianza
def compute_variance(numbers, mean):
    """
    Calcula la varianza de una lista de valores numéricos.
    """
    total = 0.0    #Inicializa la variable
total    #Sumatoria de la diferencias
    for number in numbers:
        total += (number - mean) ** 2
    return total / len(numbers)    #División entre el número
total de elementos    #Regresa la varianza

#Cálculo de la desviacion estandar
def compute_standard_deviation(variance):
    """
    Calcula la desviación estandar de una lista de valores numéricos.
    """
    #Cálculo de la desviación estandar a partir de la raíz cuadrada de
la varianza
    return math.sqrt(variance)    #Regresa la desviación
estandar

#Escritura de los resultados en archivo *.txt
def write_results(results):
    """
    Escribe los resultados en un archivo de texto.
    """
    #Se utiliza 'w' para sobrescribir el archivo y utf-8 para

```

```

compatibilidad
    with open("StatisticsResults.txt", "w", encoding="utf-8") as file:
        for key, value in results.items():
            file.write(f"{key}: {value}\n")      #Escribe cada
estadística y salto de línea

#Entrada principal del programa, el cual se encarga de manejar la
lógica o secuencia de
#ejecución del programa
def main():
    """
    Función principal del programa.
    """
    start_time = time.perf_counter() # Inicio de medición de tiempo

    # Manejo de argumentos del sistema
    if len(sys.argv) != 2:
        print("Usage: python computeStatistics.py <input_file>")
        sys.exit(1)

    file_path = sys.argv[1]
    numbers = read_numbers_from_file(file_path)

    # Validación del contenido de los datos
    if not numbers:
        print("Error: No valid numeric data found or file was empty.")
        sys.exit(1)

    # Llamado de funciones, para obtener las estadísticas de los
datos.
    mean = compute_mean(numbers)          # Cálculo de
promedio
    median = compute_median(numbers)      # Cálculo de
mediana
    mode = compute_mode(numbers)          # Cálculo de moda
    variance = compute_variance(numbers, mean) # Cálculo de
varianza
    std_dev = compute_standard_deviation(variance) # Cálculo de
desviación estandar

    end_time = time.perf_counter()        # Fin de medición
    elapsed_time = end_time - start_time   # Tiempo total

    # Las estadísticas las colocamos en un diccionario, para su
respectiva impresión
    results = {
        "Count": len(numbers),
        "Mean": mean,
        "Median": median,
        "Mode": mode,

```

```

        "Variance": variance,
        "Standard Deviation": std_dev,
        "Execution Time (seconds)": elapsed_time,
    }
    # Impresión de los resultados en consola
    for key, value in results.items():
        print(f"{key}: {value}")
    # Escritura de los datos en archivo
    write_results(results)

# Asegura que el script solo se ejecuta si se llama directamente
# y no se importa como módulo en otro archivo.
if __name__ == "__main__":
    main()

```

Overwriting computeStatistics.py

```
!python computeStatistics.py TC7.txt
```

```

Warning: Invalid data on line 183 -> 'ABBA'
Warning: Invalid data on line 229 -> 'ERROR'
Count: 12767
Mean: 2.474673954997149e+20
Median: 2.4664097307429e+20
Mode: 1.57638329490099e+20
Variance: 2.0910793147136484e+40
Standard Deviation: 1.4460564700984703e+20
Execution Time (seconds): 0.007784289000028366

```

#Análisis del código mejorado

```
!pylint computeStatistics.py
```

```

***** Module computeStatistics
computeStatistics.py:1:0: C0103: Module name "computeStatistics"
doesn't conform to snake_case naming style (invalid-name)

-----
Your code has been rated at 9.87/10 (previous run: 9.87/10, +0.00)

```

#Conclusiones

El desarrollo del programa de estadísticas descriptivas a partir de archivos de texto nos permitió manejar y recordar conceptos fundamentales de programación, análisis de datos y calidad de software. Con la implementación de algoritmos básicos se calculó la media, mediana, moda, varianza, y desviación estándar sin depender de librerías estadísticas externas, esto no permite comprender los fundamentos matemáticos, así como los algoritmos que se encuentran involucrados.

El programa maneja errores que permiten identificar y reportar datos inválidos sin interrumpir la ejecución, garantizando la continuidad del procesamiento. De igual manera el programa tiene la capacidad de procesar archivos con cientos o miles de registros, con lo que podemos mencionar de cierta forma que la solución es escalable y adecuada para diferentes tamaños de datos.

El poder contar con la medición del tiempo de ejecución y la norma PEP8, hacen que nos encontremos un poco más apegados a un enfoque profesional en el desarrollo de software. Contamos con prácticas de código legible, mantenible, y evaluable bajo ciertos criterios de calidad, en base a la librería **pylint**.

este ejemplo, presenta un problema aparentemente simple que puede abordarse con buenas prácticas de ingeniería de software, permitiéndonos desarrollar competencias para el desarrollo de algoritmos o aplicaciones con mayor grado de complejidad, con un enfoque tanto en análisis de datos e inteligencia artificial.

Los requisitos que se mencionan en el ejercicio son los siguientes:

1. El programa será invocado desde la línea de comandos. El programa recibirá un archivo como parámetro. El archivo contendrá una lista de elementos (presumiblemente números). **Se cumple con el requisito**
2. El programa calculará todas las estadísticas descriptivas a partir de un archivo de números. Los resultados se mostrarán en pantalla y en un archivo llamado `StatisticsResults.txt`. Todos los cálculos deben realizarse utilizando los algoritmos básicos, no funciones, ni bibliotecas. Las estadísticas descriptivas son: media, mediana, moda, desviación estándar y varianza. **Se cumple con el requisito**
3. El programa incluirá un mecanismo para gestionar datos no válidos en el archivo. Los errores se mostrarán en consola y la ejecución continuará. **Se cumple con el requisito**
4. El nombre del programa será `computeStatistics.py`. **Se cumple con el requisito**
5. El formato mínimo para invocar el programa será el siguiente: `python computeStatistics.py fileWithData.txt`. **Se cumple con el requisito**
6. El programa gestionará archivos con un número de elementos que puede variar desde cientos hasta miles. **Se cumple con el requisito**
7. El programa debe incluir al final de la ejecución el tiempo transcurrido para la ejecución y el cálculo de los datos. Este número se incluirá en el archivo de resultados y en la pantalla. **Se cumple con el requisito**
8. Cumplir con la norma PEP8. **Se cumple con el requisito**

Nota, correct pylint en el código sin mejoras nos envía el siguiente mensaje "**Module name 'computeStatistics' doesn't conform to snake_case naming style (invalid-name)**", al correr el código mejorado, el mensaje se mantiene, sin embargo decidimos dejar el nombre del programa como se menciona en el requisito número 4.

Los tiempos de ejecución de los diferentes archivos los mostramos a continuación:

- TC1.txt ----->> 0.0003251 segundos
- TC2.txt ----->> 0.0011161 segundos
- TC3.txt ----->> 0.0104512 segundos
- TC4.txt ----->> 0.0067519 segundos

- TC5.txt ----->> 0.0003784 segundos
- TC6.txt ----->> 0.0018766 segundos
- TC7.txt ----->> 0.0079650 segundos

La calificación el primer código fue de 8.55/10, mientras que el código mejorado presenta una calificación de 9.87/10. La mejoría para esta ocasión fue de 1.32 puntos, consideramos que es buena.

Instituto Tecnológico de Monterrey

Maestría en Inteligencia Artificial Aplicada

Curso: Pruebas de Software y aseguramiento de la Calidad

Clave: TC4017.10

Profesor Titular: Dr. Gerardo Padilla Zárate

Profesora Asistente: Mtra. Viridiana Rodríguez González

Estudiante: Francisco Javier Ramírez Arias

Matrícula: A01316379

##Actividad: Actividad 4.2

##Ejercicios de Programación #2

##Descripción: Convertidor de números decimales a binario y hexadecimal.

```
## Esta línea nos permite guardar el código en  
## un archivo físico que nombraremos computeStatistics
```

```
%%writefile convertNumbers.py
```

```
## Nos indica el intérprete que va a utilizar para  
## Ejecutar el archivo, en este caso python3
```

```
#!/usr/bin/env python3
```

```
"""
```

```
convertNumbers.py
```

```
Conversión de números decimales de un archivo de texto a binario y  
hexadecimal.
```

```
El programa es ejecutado de la línea de comando e imprime los
```

*resultados en la
pantalla y a un archivo nombrado ConversionResults.txt.*
"""

```
import sys
import time
```

Definición de función

```
def read_numbers_from_file(file_path):
    """
```

Lee los números del archivo de texto.
"""

```
    numbers = []
```

```
    try:
```

```
        with open(file_path, "r", encoding="utf-8") as file:
```

```
            for line_number, line in enumerate(file, start=1):
```

```
                value = line.strip()
```

```
                if not value:
```

```
                    continue
```

```
                try:
```

```
                    numbers.append(int(value))
```

```
                except ValueError:
```

```
                    print(
```

```
                        f"Warning: Invalid data on line {line_number}:"
```

```
                        '{value}'"
```

```
                    )
```

```
            except FileNotFoundError:
```

```
                print(f"Error: File '{file_path}' not found.")
```

```
                sys.exit(1)
```

```
    return numbers    ## Regresa los números
```

Definición de función

```
def decimal_to_binary(number):
    """
```

Convierte un entero decimal a binario utilizando el complemento a

2

a través de puros algoritmos y funciones básicas.
"""

```
    # Caso especial: cero
```

```
    if number == 0:
```

```
        return "0"
```

```
    # Determinar si es negativo
```

```
    is_negative = number < 0
```

```
    number = abs(number)
```

```
    # 1. Conversión decimal → binario (valor absoluto)
```



```

binary_digits = []
temp = number

while temp > 0:
    remainder = temp % 2
    binary_digits.append(str(remainder))
    temp //= 2

binary_digits.reverse()
binary_value = "".join(binary_digits)

# Si es positivo, regresamos el binario directo
if not is_negative:
    return binary_value

# 2. Complemento a 2 para números negativos

# Asegurar un bit extra para el signo
bits = len(binary_value) + 1
binary_value = binary_value.zfill(bits)

# Invertir bits (complemento a 1)
inverted = []
for bit in binary_value:
    if bit == '0':
        inverted.append('1')
    else:
        inverted.append('0')

# Sumar 1 (complemento a 2)
carry = 1
for i in range(len(inverted) - 1, -1, -1):
    if inverted[i] == '1' and carry == 1:
        inverted[i] = '0'
        carry = 1
    elif inverted[i] == '0' and carry == 1:
        inverted[i] = '1'
        carry = 0

return "".join(inverted)

## Definición de función
def decimal_to_binary_and_hexadecimal(number):
    """
    Conversión de decimal a:
    - binarios (utiliza complemento a 2, si es negativo)
    - hexadecimal (de la representación binaria, )

    Regresa: (decimal, binario, hexadecimal)
    """

```

```

hex_symbols = "0123456789ABCDEF"

# Caso especial
if number == 0:
    return 0, "0", "0"

# Conversión de decimal a binario
is_negative = number < 0
abs_number = abs(number)

# Conversión decimal → binario (valor absoluto)
binary_digits = []
temp = abs_number

while temp > 0:
    binary_digits.append(str(temp % 2))
    temp //= 2

binary_digits.reverse()
binary_value = "".join(binary_digits)

# Si es negativo, aplicar complemento a 2
if is_negative:
    # Agregar bit de signo
    bits = len(binary_value) + 1
    binary_value = binary_value.zfill(bits)

    # Complemento a 1
    inverted = []
    for bit in binary_value:
        inverted.append('1' if bit == '0' else '0')

    # Sumar 1 (complemento a 2)
    carry = 1
    for i in range(len(inverted) - 1, -1, -1):
        if inverted[i] == '1' and carry == 1:
            inverted[i] = '0'
        elif inverted[i] == '0' and carry == 1:
            inverted[i] = '1'
            carry = 0

    binary_value = "".join(inverted)

# Ajuste correcto de los bits
sign_bit = '1' if is_negative else '0'
while len(binary_value) % 4 != 0:
    binary_value = sign_bit + binary_value

# Conversión binario → hexadecimal

```

```

hex_digits = []

for i in range(0, len(binary_value), 4):
    nibble = binary_value[i:i+4]
    value = 0
    for bit in nibble:
        value = value * 2 + int(bit)
    hex_digits.append(hex_symbols[value])

hex_value = "".join(hex_digits)

return number, binary_value, hex_value

## Definición de función
def write_results(output_lines_to_write):
    """
    Escribe los resultados en el archivo ConversionResults.txt.
    """
    with open("ConversionResults.txt", "w", encoding="utf-8") as file:
        for line in output_lines_to_write:
            file.write(line + "\n")

## Programa principal
def main():
    """
    Punto de entrada del programa.
    """
    start_time = time.perf_counter() # Inicialización del temporizador

    if len(sys.argv) != 2:
        print("Usage: python convertNumbers.py <input_file>")
        sys.exit(1)

    file_path = sys.argv[1]
    numbers = read_numbers_from_file(file_path)

    if not numbers:
        print("Error: No valid numeric data found.")
        sys.exit(1)

    output_lines = []
    output_lines.append("Decimal | Binary | Hexadecimal")
    output_lines.append("-" * 40)

    for number in numbers:
        dec, binary_value, hex_value =
decimal_to_binary_and_hexadecimal(number)
        line = f"{dec} | {binary_value} | {hex_value}"
        output_lines.append(line)
        print(line)

```

```

    end_time = time.perf_counter()           # Finalización de
temporizador
    elapsed_time = end_time - start_time      # Tiempo de ejecución

    time_line = f"Execution Time (seconds): {elapsed_time}"
    output_lines.append("-" * 40)
    output_lines.append(time_line)

    print(time_line)
    write_results(output_lines)

if __name__ == "__main__":
    main()

```

Writing convertNumbers.py

Conversión de los datos del archivo TC1.txt

```
!python convertNumbers.py TC1.txt
```

```

6980368 | 011010101000001100010000 | 6A8310
5517055 | 010101000010111011111111 | 542EFF
1336159 | 000101000110001101011111 | 14635F
6750185 | 011001101111111111101001 | 66FFE9
1771937 | 000110110000100110100001 | 1B09A1
360952 | 01011000000111111000 | 581F8
5672561 | 010101101000111001110001 | 568E71
916583 | 11011111110001100111 | DFC67
2700138 | 001010010011001101101010 | 29336A
9645053 | 100100110010101111111101 | 932BFD
1181110 | 000100100000010110110110 | 1205B6
1492185 | 000101101100010011011001 | 16C4D9
4018595 | 001111010101000110100011 | 3D51A3
7654888 | 011101001100110111101000 | 74CDE8
7062453 | 011010111100001110110101 | 6BC3B5
2478010 | 001001011100111110111010 | 25CFBA
6134768 | 010111011001101111110000 | 5D9BF0
8420417 | 100000000111110001000001 | 807C41
2917489 | 001011001000010001110001 | 2C8471
3340773 | 001100101111100111100101 | 32F9E5
1115956 | 000100010000011100110100 | 110734
9172192 | 100010111111010011100000 | 8BF4E0
6271996 | 010111111011001111111100 | 5FB3FC
8686939 | 100001001000110101011011 | 848D5B
50986 | 1100011100101010 | C72A
9376410 | 100011110001001010011010 | 8F129A

```

5962327	010110101111101001010111	5AFA57
7686891	011101010100101011101011	754AEB
6615183	011001001111000010001111	64F08F
1864844	000111000111010010001100	1C748C
3329962	001100101100111110101010	32CFAA
3942794	001111000010100110001010	3C298A
2614836	001001111110011000110100	27E634
7406772	011100010000010010110100	7104B4
2384190	001001000110000100111110	24613E
398347	01100001010000001011	6140B
8698503	100001001011101010000111	84BA87
9551696	100100011011111101010000	91BF50
1019556	11111000111010100100	F8EA4
1677430	000110011001100001110110	199876
3479629	001101010001100001001101	35184D
9309008	100011100000101101010000	8E0B50
5266170	010100000101101011111010	505AFA
4094340	001111100111100110000100	3E7984
1754055	000110101100001111000111	1AC3C7
5861132	010110010110111100001100	596F0C
4471329	010001000011101000100001	443A21
8826052	100001101010110011000100	86ACC4
7469325	011100011111100100001101	71F90D
1973172	000111100001101110110100	1E1BB4
53145	1100111110011001	CF99
3897508	001110110111100010100100	3B78A4
7773386	011101101001110011001010	769CCA
6089829	010111001110110001100101	5CEC65
4223424	010000000111000111000000	4071C0
9761752	100101001111001111011000	94F3D8
7930799	011110010000001110101111	7903AF
3597495	001101101110010010110111	36E4B7
9302948	100011011111001110100100	8DF3A4
2288712	001000101110110001001000	22EC48
197187	00110000001001000011	30243
5266939	010100000101110111111011	505DFB
221545	00110110000101101001	36169
7957027	011110010110101000100011	796A23
3195361	001100001100000111100001	30C1E1
7106269	011011000110111011011101	6C6EDD
9633312	100100101111111000100000	92FE20
9713704	100101000011100000101000	943828
91925	00010110011100010101	16715
4418686	010000110110110001111110	436C7E
9682250	100100111011110101001010	93BD4A
2583824	001001110110110100010000	276D10
4979126	010010111111100110110110	4BF9B6
6280954	010111111101011011111010	5FD6FA
1228610	000100101011111101000010	12BF42

705518		10101100001111101110		AC3EE
1017653		11111000011100110101		F8735
500098		01111010000110000010		7A182
7210727		011011100000011011100111		6E06E7
4250898		010000001101110100010010		40DD12
4055028		001111011101111111110100		3DDFF4
2754240		001010100000011011000000		2A06C0
452999		01101110100110000111		6E987
6831458		011010000011110101100010		683D62
207636		00110010101100010100		32B14
7280635		011011110001011111111011		6F17FB
3308937		001100100111110110001001		327D89
4303570		010000011010101011010010		41AAD2
8375055		011111111100101100001111		7FCB0F
1457960		000101100011111100101000		163F28
5197625		010011110100111100111001		4F4F39
3144371		001011111111101010110011		2FFAB3
6674138		011001011101011011011010		65D6DA
2692106		001010010001010000001010		29140A
2276769		001000101011110110100001		22BDA1
1940971		000111011001110111101011		1D9DEB
3288264		001100100010110011001000		322CC8
4819803		010010011000101101011011		498B5B
9431005		100011111110011111011101		8FE7DD
3992019		001111001110100111010011		3CE9D3
8184782		011111001110001111001110		7CE3CE
2847975		001010110111010011100111		2B74E7
7891025		011110000110100001010001		786851
900082		11011011101111110010		DBBF2
1831532		000110111111001001101100		1BF26C
8428253		100000001001101011011101		809ADD
2905752		001011000101011010011000		2C5698
9763121		100101001111100100110001		94F931
257890		00111110111101100010		3EF62
4699761		010001111011011001110001		47B671
359541		01010111110001110101		57C75
3446150		001101001001010110000110		349586
4246818		010000001100110100100010		40CD22
1848840		000111000011011000001000		1C3608
938480		11100101000111110000		E51F0
227465		00110111100010001001		37889
3923488		001110111101111000100000		3BDE20
8915697		100010000000101011110001		880AF1
4309094		010000011100000001100110		41C066
3891251		001110110110000000110011		3B6033
8627956		100000111010011011110100		83A6F4
5884613		010110011100101011000101		59CAC5
1659318		000110010101000110110110		1951B6
1834855		000110111111111101100111		1BFF67

3386751	001100111010110101111111	33AD7F
3000166	001011011100011101100110	2DC766
9135626	100010110110011000001010	8B660A
4869260	010010100100110010001100	4A4C8C
76550	00010010101100000110	12B06
432271	01101001100010001111	6988F
251028	00111101010010010100	3D494
7016218	011010110000111100011010	6B0F1A
6896099	011010010011100111100011	6939E3
8386350	01111111111011100101110	7FF72E
8637147	100000111100101011011011	83CADB
936705	11100100101100000001	E4B01
6602175	011001001011110110111111	64BDBF
1429181	000101011100111010111101	15CEBD
8395138	100000000001100110000010	801982
6132809	010111011001010001001001	5D9449
5936917	010110101001011100010101	5A9715
2878578	001010111110110001110010	2BEC72
158885	00100110110010100101	26CA5
2441957	001001010100001011100101	2542E5
5914794	010110100100000010101010	5A40AA
3999272	001111010000011000101000	3D0628
3142897	001011111111010011110001	2FF4F1
8151159	011111000110000001110111	7C6077
5147564	010011101000101110101100	4E8BAC
4595374	010001100001111010101110	461EAE
4234951	010000001001111011000111	409EC7
7880605	011110000011111110011101	783F9D
7009921	011010101111011010000001	6AF681
695580	10101001110100011100	A9D1C
7370443	011100000111011011001011	7076CB
7921729	011110001110000001000001	78E041
8419625	100000000111100100101001	807929
7024080	011010110010110111010000	6B2DD0
3905988	001110111001100111000100	3B99C4
1767599	000110101111100010101111	1AF8AF
935136	11100100010011100000	E44E0
635788	10011011001110001100	9B38C
8807719	100001100110010100100111	866527
317375	01001101011110111111	4D7BF
9975410	100110000011011001110010	983672
2727968	001010011010000000100000	29A020
7444399	011100011001011110101111	7197AF
4065675	001111100000100110001011	3E098B
9925720	100101110111010001011000	977458
2293633	001000101111111110000001	22FF81
7734826	011101100000011000101010	76062A
1065463	000100000100000111110111	1041F7
1105617	000100001101111011010001	10DED1

5325800		010100010100001111101000		5143E8
3822527		001110100101001110111111		3A53BF
5503858		010100111111101101110010		53FB72
9214055		100011001001100001100111		8C9867
6521769		011000111000001110101001		6383A9
7923796		011110001110100001010100		78E854
5250236		010100000001110010111100		501CBC
1083154		000100001000011100010010		108712
472141		01110011010001001101		7344D
9597454		100100100111001000001110		92720E
1581679		000110000010001001101111		18226F
656751		10100000010101101111		A056F
345464		01010100010101111000		54578
4281218		010000010101001110000010		415382
6558883		011001000001010010100011		6414A3
3852986		001110101100101010111010		3ACABA
6263187		01011111001000110010011		5F9193
5828308		010110001110111011010100		58EED4
8058535		011110101111011010100111		7AF6A7
9035191		100010011101110110110111		89DDB7
7922103		011110001110000110110111		78E1B7
9366003		100011101110100111110011		8EE9F3
4555717		010001011000001111000101		4583C5
3526753		001101011101000001100001		35D061
3176815		001100000111100101101111		30796F
858440		11010001100101001000		D1948
2250854		001000100101100001100110		225866
Execution Time (seconds): 0.00507847299999753				

Conversión de los datos del archivo TC2.txt

```
!python convertNumbers.py TC2.txt
```

7116776		011011001001011111101000		6C97E8
1666340		000110010110110100100100		196D24
8886983		100001111001101011000111		879AC7
839365		11001100111011000101		CCEC5
924280		11100001101001111000		E1A78
1026310		11111010100100000110		FA906
1615293		000110001010010110111101		18A5BD
1063875		000100000011101111000011		103BC3
679035		10100101110001111011		A5C7B
5201970		010011110110000000110010		4F6032
593979		10010001000000111011		9103B
801371		11000011101001011011		C3A5B
3796878		001110011110111110001110		39EF8E
7489201		011100100100011010110001		7246B1
9740020		100101001001111011110100		949EF4

9128737	100010110100101100100001	8B4B21
5473463	010100111000010010110111	5384B7
8701957	100001001100100000000101	84C805
8238050	01111011011001111100010	7DB3E2
8679038	100001000110111001111110	846E7E
385912	01011110001101111000	5E378
5867340	010110011000011101001100	59874C
4894542	010010101010111101001110	4AAF4E
8999451	100010010101001000011011	89521B
4392535	010000110000011001010111	430657
2078131	00011111011010110110011	1FB5B3
3070124	001011101101100010101100	2ED8AC
7451998	011100011011010101011110	71B55E
5635510	010101011111110110110110	55FDB6
1233932	0001001011010100000001100	12D40C
6089867	010111001110110010001011	5CEC8B
1792316	000110110101100100111100	1B593C
6298637	011000000001110000001101	601C0D
2408038	001001001011111001100110	24BE66
8510100	100000011101101010010100	81DA94
991581	11110010000101011101	F215D
6455739	011000101000000110111011	6281BB
7829175	011101110111011010110111	7776B7
6328931	011000001001001001100011	609263
9982305	100110000101000101100001	985161
2292022	001000101111100100110110	22F936
1070496	000100000101010110100000	1055A0
8518360	100000011111101011011000	81FAD8
6378470	011000010101001111100110	6153E6
7756258	011101100101100111100010	7659E2
7111767	011011001000010001010111	6C8457
2685897	001010001111101111001001	28FBC9
617946	10010110110111011010	96DDA
246280	00111100001000001000	3C208
6075442	010111001011010000110010	5CB432
991323	11110010000001011011	F205B
6754202	011001110000111110011010	670F9A
3103178	001011110101100111001010	2F59CA
3228842	001100010100010010101010	3144AA
6786623	011001111000111000111111	678E3F
5329085	010100010101000010111101	5150BD
2334647	001000111001111110110111	239FB7
7253396	011011101010110110010100	6EAD94
6516953	0110001101111000011011001	6370D9
5972725	010110110010001011110101	5B22F5
5828037	010110001110110111000101	58EDC5
6642265	011001010101101001011001	655A59
2559699	001001110000111011010011	270ED3
6597631	011001001010101111111111	64ABFF

5826202	010110001110011010011010	58E69A
4642335	010001101101011000011111	46D61F
1862900	000111000110110011110100	1C6CF4
6039635	010111000010100001010011	5C2853
3358744	001100110100000000011000	334018
4965249	010010111100001110000001	4BC381
6621475	011001010000100100100011	650923
3336153	001100101110011111011001	32E7D9
1044743	1111111000100000111	FF107
6201477	010111101010000010000101	5EA085
6297100	011000000001011000001100	60160C
885678	11011000001110101110	D83AE
8546891	100000100110101001001011	826A4B
6683923	011001011111110100010011	65FD13
7064472	011010111100101110011000	6BCB98
3430021	001101000101011010000101	345685
9764122	100101001111110100011010	94FD1A
9958605	100101111111010011001101	97F4CD
1006022	11110101100111000110	F59C6
5276496	010100001000001101010000	508350
8876232	100001110111000011001000	8770C8
3364648	001100110101011100101000	335728
3539979	001101100000010000001011	36040B
3003857	001011011101010111010001	2DD5D1
4481634	010001000110001001100010	446262
9035781	100010011110000000000101	89E005
3767021	001110010111101011101101	397AED
4993901	010011000011001101101101	4C336D
8698377	100001001011101000001001	84BA09
4626501	010001101001100001000101	469845
1755352	000110101100100011011000	1AC8D8
2755340	001010100000101100001100	2A0B0C
5150616	010011101001011110011000	4E9798
9345169	100011101001100010010001	8E9891
848948	11001111010000110100	CF434
2708748	001010010101010100001100	29550C
8372451	011111111100000011100011	7FC0E3
3523015	001101011100000111000111	35C1C7
2624283	001010000000101100011011	280B1B
8795348	100001100011010011010100	8634D4
2318100	001000110101111100010100	235F14
4750861	010010000111111000001101	487E0D
3770597	001110011000100011100101	3988E5
1053352	000100000001001010101000	1012A8
833307	11001011011100011011	CB71B
4632526	010001101010111111001110	46AFCE
2212917	001000011100010000110101	21C435
5053189	010011010001101100000101	4D1B05
412218	01100100101000111010	64A3A

4901564	010010101100101010111100	4ACABC
5094606	010011011011110011001110	4DBCCE
8070285	011110110010010010001101	7B248D
6847905	011010000111110110100001	687DA1
4311824	010000011100101100010000	41CB10
3009421	001011011110101110001101	2DEB8D
1629105	000110001101101110110001	18DBB1
8431899	100000001010100100011011	80A91B
7582456	011100111011001011111000	73B2F8
7332147	01101111110000100110011	6FE133
314183	01001100101101000111	4CB47
7632568	011101000111011010111000	7476B8
8161327	011111001000100000101111	7C882F
6961087	011010100011011110111111	6A37BF
6898282	011010010100001001101010	69426A
9749303	100101001100001100110111	94C337
4427419	010000111000111010011011	438E9B
4368829	010000101010100110111101	42A9BD
6439318	011000100100000110010110	624196
6473603	011000101100011110000011	62C783
6446249	011000100101110010101001	625CA9
9818836	100101011101001011010100	95D2D4
9438069	100100000000001101110101	900375
2809499	001010101101111010011011	2ADE9B
3460304	001101001100110011010000	34CCD0
8430904	100000001010010100111000	80A538
9774785	100101010010011011000001	9526C1
9560603	100100011110001000011011	91E21B
3440732	001101001000000001011100	34805C
7053263	011010111001111111001111	6B9FCF
287398	01000110001010100110	462A6
4043644	001111011011001101111100	3DB37C
2943820	001011001110101101001100	2CEB4C
9030962	100010011100110100110010	89CD32
7537540	011100110000001110000100	730384
7203657	011011011110101101001001	6DEB49
5639400	010101100000110011101000	560CE8
9448142	100100000010101011001110	902ACE
9954392	100101111110010001011000	97E458
2856859	001010111001011110011011	2B979B
1332118	000101000101001110010110	145396
6984725	011010101001010000010101	6A9415
1925762	000111010110001010000010	1D6282
2138171	001000001010000000111011	20A03B
347447	01010100110100110111	54D37
8839390	100001101110000011011110	86E0DE
3951652	001111000100110000100100	3C4C24
3755102	001110010100110001011110	394C5E
6867687	011010001100101011100111	68CAE7

4383175	010000101110000111000111	42E1C7
7125508	011011001011101000000100	6CBA04
7799732	011101110000001110110100	7703B4
8784156	100001100000100100011100	86091C
1372809	000101001111001010001001	14F289
1327984	000101000100001101110000	144370
9205087	100011000111010101011111	8C755F
6524241	011000111000110101010001	638D51
9316072	100011100010011011101000	8E26E8
127744	00011111001100000000	1F300
8388820	100000000000000011010100	8000D4
6883557	011010010000100011100101	6908E5
2291239	001000101111011000100111	22F627
3101270	001011110101001001010110	2F5256
1382825	000101010001100110101001	1519A9
9873376	100101101010011111100000	96A7E0
6873500	011010001110000110011100	68E19C
8185634	011111001110011100100010	7CE722
2464786	001001011001110000010010	259C12
8387154	011111111111101001010010	7FFA52
5581444	010101010010101010000100	552A84
8097911	011110111001000001110111	7B9077
8882527	100001111000100101011111	87895F
8941444	100010000110111110000100	886F84
4942703	010010110110101101101111	4B6B6F
101144	00011000101100011000	18B18
7471180	011100100000000001001100	72004C
1932131	000111010111101101100011	1D7B63
8052752	011110101110000000010000	7AE010
6359493	011000010000100111000101	6109C5
1967646	000111100000011000011110	1E061E
6575052	011001000101001111001100	6453CC
2323342	001000110111001110001110	23738E
6735760	011001101100011110010000	66C790
8895858	100001111011110101110010	87BD72
4238091	010000001010101100001011	40AB0B
7093069	011011000011101101001101	6C3B4D
39	00100111	27

Execution Time (seconds): 0.005159722000001921

Conversión de los datos del archivo TC3.txt

```
!python convertNumbers.py TC3.txt
```

```
-39 | 11011001 | D9
-36 | 11011100 | DC
8 | 1000 | 8
34 | 00100010 | 22
```

17		00010001		11
49		00110001		31
5		0101		5
39		00100111		27
0		0		0
33		00100001		21
12		1100		C
-6		1010		A
27		00011011		1B
-4		1100		C
-38		11011010		DA
26		00011010		1A
49		00110001		31
29		00011101		1D
42		00101010		2A
-16		11110000		F0
-28		11100100		E4
34		00100010		22
20		00010100		14
0		0		0
25		00011001		19
45		00101101		2D
3		0011		3
-46		11010010		D2
-46		11010010		D2
29		00011101		1D
33		00100001		21
29		00011101		1D
26		00011010		1A
-5		1011		B
-36		11011100		DC
12		1100		C
45		00101101		2D
-50		11001110		CE
0		0		0
-6		1010		A
-39		11011001		D9
35		00100011		23
26		00011010		1A
-35		11011101		DD
-42		11010110		D6
14		1110		E
-3		1101		D
22		00010110		16
-47		11010001		D1
12		1100		C
-17		11101111		EF
-31		11100001		E1
-25		11100111		E7

-35		11011101		DD
-18		11101110		EE
14		1110		E
37		00100101		25
-8		11111000		F8
-41		11010111		D7
-50		11001110		CE
-9		11110111		F7
2		0010		2
12		1100		C
-39		11011001		D9
-17		11101111		EF
0		0		0
27		00011011		1B
28		00011100		1C
45		00101101		2D
-44		11010100		D4
28		00011100		1C
35		00100011		23
-33		11011111		DF
43		00101011		2B
-4		1100		C
23		00010111		17
-49		11001111		CF
49		00110001		31
-7		1001		9
-38		11011010		DA
-45		11010011		D3
5		0101		5
-21		11101011		EB
26		00011010		1A
-2		1110		E
-24		11101000		E8
6		0110		6
-45		11010011		D3
-4		1100		C
15		1111		F
0		0		0
-17		11101111		EF
-35		11011101		DD
43		00101011		2B
45		00101101		2D
-35		11011101		DD
-8		11111000		F8
28		00011100		1C
47		00101111		2F
34		00100010		22
-24		11101000		E8
-42		11010110		D6

-13		11110011		F3
14		1110		E
-45		11010011		D3
-35		11011101		DD
27		00011011		1B
-12		11110100		F4
-19		11101101		ED
-20		11101100		EC
-14		11110010		F2
20		00010100		14
30		00011110		1E
12		1100		C
-36		11011100		DC
-47		11010001		D1
-27		11100101		E5
-3		1101		D
6		0110		6
36		00100100		24
9		1001		9
-16		11110000		F0
36		00100100		24
-27		11100101		E5
7		0111		7
-6		1010		A
-5		1011		B
5		0101		5
47		00101111		2F
23		00010111		17
-48		11010000		D0
-24		11101000		E8
40		00101000		28
-4		1100		C
-18		11101110		EE
-19		11101101		ED
14		1110		E
15		1111		F
1		0001		1
24		00011000		18
-9		11110111		F7
-50		11001110		CE
18		00010010		12
15		1111		F
30		00011110		1E
44		00101100		2C
9		1001		9
19		00010011		13
33		00100001		21
41		00101001		29
-24		11101000		E8

43		00101011		2B
48		00110000		30
-23		11101001		E9
7		0111		7
28		00011100		1C
8		1000		8
-2		1110		E
37		00100101		25
42		00101010		2A
-17		11101111		EF
-6		1010		A
36		00100100		24
22		00010110		16
27		00011011		1B
31		00011111		1F
-47		11010001		D1
-43		11010101		D5
0		0		0
27		00011011		1B
30		00011110		1E
12		1100		C
-15		11110001		F1
-19		11101101		ED
-42		11010110		D6
-37		11011011		DB
31		00011111		1F
-10		11110110		F6
18		00010010		12
33		00100001		21
-15		11110001		F1
17		00010001		11
25		00011001		19
-25		11100111		E7
-5		1011		B
33		00100001		21
-13		11110011		F3
33		00100001		21
-10		11110110		F6
47		00101111		2F
47		00101111		2F
-13		11110011		F3
-32		11100000		E0
1		0001		1
1		0001		1
-25		11100111		E7
-33		11011111		DF
16		00010000		10
17		00010001		11


```
4 | 0100 | 4
Execution Time (seconds): 0.0022856079999939993
```

Conversión de los datos del archivo TC4.txt

```
!python convertNumbers.py TC4.txt

Warning: Invalid data on line 8: 'ABC'
Warning: Invalid data on line 21: 'ERR'
Warning: Invalid data on line 41: 'VAL'
-39 | 11011001 | D9
-36 | 11011100 | DC
8 | 1000 | 8
34 | 00100010 | 22
17 | 00010001 | 11
49 | 00110001 | 31
5 | 0101 | 5
0 | 0 | 0
33 | 00100001 | 21
12 | 1100 | C
-6 | 1010 | A
27 | 00011011 | 1B
-4 | 1100 | C
-38 | 11011010 | DA
26 | 00011010 | 1A
49 | 00110001 | 31
29 | 00011101 | 1D
42 | 00101010 | 2A
-16 | 11110000 | F0
34 | 00100010 | 22
20 | 00010100 | 14
0 | 0 | 0
25 | 00011001 | 19
45 | 00101101 | 2D
3 | 0011 | 3
-46 | 11010010 | D2
-46 | 11010010 | D2
29 | 00011101 | 1D
33 | 00100001 | 21
29 | 00011101 | 1D
26 | 00011010 | 1A
-5 | 1011 | B
-36 | 11011100 | DC
12 | 1100 | C
45 | 00101101 | 2D
-50 | 11001110 | CE
0 | 0 | 0
```

```
-6 | 1010 | A
Execution Time (seconds): 0.0008601460000079442
```

Instalación de Pylint

```
pip install pylint
```

```
Collecting pylint
  Downloading pylint-4.0.4-py3-none-any.whl.metadata (12 kB)
Collecting astroid<=4.1.dev0,>=4.0.2 (from pylint)
  Downloading astroid-4.0.3-py3-none-any.whl.metadata (4.4 kB)
Requirement already satisfied: dill>=0.3.6 in
/usr/local/lib/python3.12/dist-packages (from pylint) (0.3.8)
Collecting isort!=5.13,<8,>=5 (from pylint)
  Downloading isort-7.0.0-py3-none-any.whl.metadata (11 kB)
Collecting mccabe<0.8,>=0.6 (from pylint)
  Downloading mccabe-0.7.0-py2.py3-none-any.whl.metadata (5.0 kB)
Requirement already satisfied: platformdirs>=2.2 in
/usr/local/lib/python3.12/dist-packages (from pylint) (4.5.1)
Requirement already satisfied: tomlkit>=0.10.1 in
/usr/local/lib/python3.12/dist-packages (from pylint) (0.13.3)
Downloading pylint-4.0.4-py3-none-any.whl (536 kB)
----- 536.4/536.4 kB 26.1 MB/s eta
0:00:00
----- 276.4/276.4 kB 16.9 MB/s eta
0:00:00
----- 94.7/94.7 kB 7.3 MB/s eta
0:00:00
ccabe-0.7.0-py2.py3-none-any.whl (7.3 kB)
Installing collected packages: mccabe, isort, astroid, pylint
Successfully installed astroid-4.0.3 isort-7.0.0 mccabe-0.7.0 pylint-
4.0.4
```

#Análisis del Código

```
!pylint convertNumbers.py

***** Module convertNumbers
convertNumbers.py:1:0: C0103: Module name "convertNumbers" doesn't
conform to snake_case naming style (invalid-name)
convertNumbers.py:103:0: R0914: Too many local variables (17/15) (too-
many-locals)

-----
Your code has been rated at 9.83/10
```

#Código Mejorado

```

## Esta linea nos permite guardar el codigo en
## un archivo físico que nombraremos convertNumbers

%%writefile convertNumbers.py

## Indica al interprete que va a utilizar para
## ejecutar el archivo, en este caso python3

#!/usr/bin/env python3

"""
convertNumbers.py

Conversión de números decimales de un archivo de texto a binario y
hexadecimal.
El programa es ejecutado de la línea de comando e imprime los
resultados en la
pantalla y a un archivo nombrado ConversionResults.txt.
"""

import sys
import time

## Definición de función
def read_numbers_from_file(file_path):
    """
    Lee los números del archivo de texto.
    """
    numbers = []

    try:
        with open(file_path, "r", encoding="utf-8") as file:
            for line_number, line in enumerate(file, start=1):
                value = line.strip()
                if not value:
                    continue
                try:
                    numbers.append(int(value))
                except ValueError:
                    print(
                        f"Warning: Invalid data on line {line_number}:
                        '{value}'"
                    )
            except FileNotFoundError:
                print(f"Error: File '{file_path}' not found.")
                sys.exit(1)

        return numbers

## Definición de función

```

```

def decimal_to_binary(number):
    """
    Convierte un entero decimal a binario utilizando el complemento a
2
a través de puros algoritmos y funciones básicas.
    """

    # Caso especial: cero
    if number == 0:
        return "0"

    # PASO #1
    # Determina el signo del número
    is_negative = number < 0
    # Se trabaja con el valor absoluto para
    # realizar la conversión binaria
    number = abs(number)

    # PASO #2
    # Conversión decimal → binario (valor absoluto)
    # Por medio de división repetida entre 2
    binary_digits = []
    temp = number

    while temp > 0:
        remainder = temp % 2                # Bit menos significativo
        binary_digits.append(str(remainder))
        temp //= 2                          # División entre 2

    # Inversión de la lista para tener el orden binario correcto
    binary_digits.reverse()
    binary_value = "".join(binary_digits)

    # PASO #3
    # Si es positivo, regresamos el binario directo
    if not is_negative:
        return binary_value

    # PASO #4
    # Complemento a 2 para números negativos
    # Se agrega un bit extra para manejo del signo
    bits = len(binary_value) + 1
    binary_value = binary_value.zfill(bits)

    # PASO #4(A)
    # Se calcula el complemento uno, esta operación
    # consiste en invertir cada bit:
    # '0' se vuelve '1'
    # '1' se vuelve '0'
    inverted = []

```

```

for bit in binary_value:
    # Si el bit actual es '0' se invierte a '1'
    if bit == '0':
        inverted.append('1')
    # Si el bit actual es '1' se invierte a '0'
    else:
        inverted.append('0')

# PASO #4(B)
# Se suma 1 para obtener el complemento a 2
# Esta suma comienza con el bit menos significativo (derecha)
# y se propaga el acarreo a la izquierda cuando se necesite.
# Se inicializa el acarreo con 1, debido a que sumamos 1.
carry = 1
# Recorremos la lista de bits de derecha a izquierda
for i in range(len(inverted) - 1, -1, -1):

    # Caso 1:
    # Si el bit actual es '1' y hay acarreo,
    # el resultado es '0' y el acarreo se mantiene '1'
    if inverted[i] == '1' and carry == 1:
        inverted[i] = '0'
        carry = 1

    # Caso 2:
    # Si el bit actual es '0' y hay acarreo,
    # el resultado es '1' y el acarreo no se presenta
    elif inverted[i] == '0' and carry == 1:
        inverted[i] = '1'
        carry = 0

# PASO #5
# se une la lista dentro de la cadena binaria final
# Lista de caracteres se convierte a caracteres binario
# representando el complemento a 2.
return "".join(inverted)

## Definición de función
def decimal_to_binary_and_hexadecimal(number):
    """
    Conversión de decimal a:
    - binarios (utiliza complemento a 2, si es negativo)
    - hexadecimal (de la representación binaria, )

    Regresa: (decimal, binario, hexadecimal)
    """

    hex_symbols = "0123456789ABCDEF"

    # Caso especial

```

```

if number == 0:
    return 0, "0", "0"

# Se obtiene el complemento a 2, para obtener el valor decimal en
binario
binary_value = decimal_to_binary(number)

# Ajuste de bits para hexadecimal
# Determina el bit de signo.
# El bit inicial de `binary_value` será el bit de signo
# (0 para positivo, 1 para negativo).
# Necesitamos extender este bit de signo para que la
# longitud sea un múltiplo de 4.
sign_bit = binary_value[0] if binary_value else '0'

while len(binary_value) % 4 != 0:
    binary_value = sign_bit + binary_value

# Binario a hexadecimal
hex_digits = []

for i in range(0, len(binary_value), 4):
    nibble = binary_value[i:i+4]
    value = 0
    for bit in nibble:
        value = value * 2 + int(bit)
    hex_digits.append(hex_symbols[value])

hex_value = "".join(hex_digits)

return number, binary_value, hex_value

## Definición de función
def write_results(output_lines_to_write):
    """
    Write the given lines to ConversionResults.txt.
    """
    with open("ConversionResults.txt", "w", encoding="utf-8") as file:
        for line in output_lines_to_write:
            file.write(line + "\n")

## Definición de función programa principall
def main():
    """
    Punto inicial del programa
    """
    start_time = time.perf_counter()    #Inicialización de timer

    if len(sys.argv) != 2:
        print("Usage: python convertNumbers.py <input_file>")
        sys.exit(1)

```

```

file_path = sys.argv[1]
numbers = read_numbers_from_file(file_path)

if not numbers:
    print("Error: No valid numeric data found.")
    sys.exit(1)

output_lines = []
output_lines.append("Decimal | Binary | Hexadecimal")
output_lines.append("-" * 40)

for number in numbers:
    dec, binary_value, hex_value =
decimal_to_binary_and_hexadecimal(number)
    line = f"{dec} | {binary_value} | {hex_value}"
    output_lines.append(line)
    print(line)                                #Impresión de los
resultados

end_time = time.perf_counter()                  #Finalizacion del timer
elapsed_time = end_time - start_time            #Cálculo de tiempo de
ejecución

time_line = f"Execution Time (seconds): {elapsed_time}"
output_lines.append("-" * 40)
output_lines.append(time_line)

print(time_line)
write_results(output_lines)                     #Escritura de los
resultados a archivo

if __name__ == "__main__":
    main()

```

Overwriting convertNumbers.py

#Conversión de los datos de los archivos TC2.txt y TC3.txt

```

!python convertNumbers.py TC2.txt

7116776 | 111011001001011111101000 | EC97E8
1666340 | 111110010110110100100100 | F96D24
8886983 | 100001111001101011000111 | 879AC7
839365 | 11001100111011000101 | CCEC5
924280 | 11100001101001111000 | E1A78
1026310 | 11111010100100000110 | FA906
1615293 | 111110001010010110111101 | F8A5BD
1063875 | 111100000011101111000011 | F03BC3

```

679035		10100101110001111011		A5C7B
5201970		110011110110000000110010		CF6032
593979		10010001000000111011		9103B
801371		11000011101001011011		C3A5B
3796878		111110011110111110001110		F9EF8E
7489201		111100100100011010110001		F246B1
9740020		100101001001111011110100		949EF4
9128737		100010110100101100100001		8B4B21
5473463		110100111000010010110111		D384B7
8701957		100001001100100000000101		84C805
8238050		11111011011001111100010		FDB3E2
8679038		100001000110111001111110		846E7E
385912		11011110001101111000		DE378
5867340		110110011000011101001100		D9874C
4894542		110010101010111101001110		CAAF4E
8999451		100010010101001000011011		89521B
4392535		110000110000011001010111		C30657
2078131		11111111011010110110011		FFB5B3
3070124		111011101101100010101100		EED8AC
7451998		111100011011010101011110		F1B55E
5635510		110101011111110110110110		D5FDB6
1233932		111100101101010000001100		F2D40C
6089867		110111001110110010001011		DCEC8B
1792316		111110110101100100111100		FB593C
6298637		111000000001110000001101		E01C0D
2408038		111001001011111001100110		E4BE66
8510100		100000011101101010010100		81DA94
991581		11110010000101011101		F215D
6455739		111000101000000110111011		E281BB
7829175		111101110111011010110111		F776B7
6328931		111000001001001001100011		E09263
9982305		100110000101000101100001		985161
2292022		111000101111100100110110		E2F936
1070496		111100000101010110100000		F055A0
8518360		100000011111101011011000		81FAD8
6378470		111000010101001111100110		E153E6
7756258		111101100101100111100010		F659E2
7111767		111011001000010001010111		EC8457
2685897		111010001111101111001001		E8FBC9
617946		10010110110111011010		96DDA
246280		11111100001000001000		FC208
6075442		110111001011010000110010		DCB432
991323		11110010000001011011		F205B
6754202		111001110000111110011010		E70F9A
3103178		111011110101100111001010		EF59CA
3228842		111100010100010010101010		F144AA
6786623		111001111000111000111111		E78E3F
5329085		110100010101000010111101		D150BD
2334647		111000111001111110110111		E39FB7

7253396	111011101010110110010100	EEAD94
6516953	111000110111000011011001	E370D9
5972725	110110110010001011110101	DB22F5
5828037	110110001110110111000101	D8EDC5
6642265	111001010101101001011001	E55A59
2559699	111001110000111011010011	E70ED3
6597631	111001001010101111111111	E4ABFF
5826202	110110001110011010011010	D8E69A
4642335	110001101101011000011111	C6D61F
1862900	111111000110110011110100	FC6CF4
6039635	110111000010100001010011	DC2853
3358744	111100110100000000011000	F34018
4965249	110010111100001110000001	CBC381
6621475	111001010000100100100011	E50923
3336153	111100101110011111011001	F2E7D9
1044743	1111111000100000111	FF107
6201477	110111101010000010000101	DEA085
6297100	111000000001011000001100	E0160C
885678	11011000001110101110	D83AE
8546891	100000100110101001001011	826A4B
6683923	111001011111110100010011	E5FD13
7064472	111010111100101110011000	EBCB98
3430021	111101000101011010000101	F45685
9764122	100101001111110100011010	94FD1A
9958605	100101111111010011001101	97F4CD
1006022	11110101100111000110	F59C6
5276496	110100001000001101010000	D08350
8876232	100001110111000011001000	8770C8
3364648	111100110101011100101000	F35728
3539979	111101100000010000001011	F6040B
3003857	111011011101010111010001	EDD5D1
4481634	110001000110001001100010	C46262
9035781	1000100111110000000000101	89E005
3767021	111110010111101011101101	F97AED
4993901	110011000011001101101101	CC336D
8698377	100001001011101000001001	84BA09
4626501	110001101001100001000101	C69845
1755352	111110101100100011011000	FAC8D8
2755340	111010100000101100001100	EA0B0C
5150616	110011101001011110011000	CE9798
9345169	100011101001100010010001	8E9891
848948	11001111010000110100	CF434
2708748	111010010101010100001100	E9550C
8372451	111111111100000011100011	FFC0E3
3523015	111101011100000111000111	F5C1C7
2624283	111010000000101100011011	E80B1B
8795348	100001100011010011010100	8634D4
2318100	111000110101111100010100	E35F14
4750861	110010000111111000001101	C87E0D

3770597	111110011000100011100101	F988E5
1053352	111100000001001010101000	F012A8
833307	11001011011100011011	CB71B
4632526	110001101010111111001110	C6AFCE
2212917	111000011100010000110101	E1C435
5053189	110011010001101100000101	CD1B05
412218	11100100101000111010	E4A3A
4901564	110010101100101010111100	CACABC
5094606	110011011011110011001110	CDBCCE
8070285	111110110010010010001101	FB248D
6847905	111010000111110110100001	E87DA1
4311824	110000011100101100010000	C1CB10
3009421	111011011110101110001101	EDEB8D
1629105	111110001101101110110001	F8DBB1
8431899	100000001010100100011011	80A91B
7582456	111100111011001011111000	F3B2F8
7332147	111011111110000100110011	EFE133
314183	11001100101101000111	CCB47
7632568	111101000111011010111000	F476B8
8161327	111111001000100000101111	FC882F
6961087	111010100011011110111111	EA37BF
6898282	111010010100001001101010	E9426A
9749303	100101001100001100110111	94C337
4427419	110000111000111010011011	C38E9B
4368829	110000101010100110111101	C2A9BD
6439318	111000100100000110010110	E24196
6473603	111000101100011110000011	E2C783
6446249	111000100101110010101001	E25CA9
9818836	100101011101001011010100	95D2D4
9438069	100100000000001101110101	900375
2809499	111010101101111010011011	EADE9B
3460304	111101001100110011010000	F4CCD0
8430904	100000001010010100111000	80A538
9774785	100101010010011011000001	9526C1
9560603	100100011110001000011011	91E21B
3440732	111101001000000001011100	F4805C
7053263	111010111001111111001111	EB9FCF
287398	11000110001010100110	C62A6
4043644	111111011011001101111100	FDB37C
2943820	111011001110101101001100	ECEB4C
9030962	100010011100110100110010	89CD32
7537540	111100110000001110000100	F30384
7203657	111011011110101101001001	EDEB49
5639400	110101100000110011101000	D60CE8
9448142	100100000010101011001110	902ACE
9954392	100101111110010001011000	97E458
2856859	111010111001011110011011	EB979B
1332118	111101000101001110010110	F45396
6984725	111010101001010000010101	EA9415

1925762	111111010110001010000010	FD6282
2138171	111000001010000000111011	E0A03B
347447	11010100110100110111	D4D37
8839390	100001101110000011011110	86E0DE
3951652	111111000100110000100100	FC4C24
3755102	111110010100110001011110	F94C5E
6867687	111010001100101011100111	E8CAE7
4383175	110000101110000111000111	C2E1C7
7125508	111011001011101000000100	ECBA04
7799732	111101110000001110110100	F703B4
8784156	100001100000100100011100	86091C
1372809	111101001111001010001001	F4F289
1327984	111101000100001101110000	F44370
9205087	100011000111010101011111	8C755F
6524241	111000111000110101010001	E38D51
9316072	100011100010011011101000	8E26E8
127744	11111111001100000000	FF300
8388820	100000000000000011010100	8000D4
6883557	111010010000100011100101	E908E5
2291239	111000101111011000100111	E2F627
3101270	111011110101001001010110	EF5256
1382825	111101010001100110101001	F519A9
9873376	100101101010011111100000	96A7E0
6873500	111010001110000110011100	E8E19C
8185634	111111001110011100100010	FCE722
2464786	111001011001110000010010	E59C12
8387154	111111111111101001010010	FFFA52
5581444	110101010010101010000100	D52A84
8097911	111110111001000001110111	FB9077
8882527	100001111000100101011111	87895F
8941444	100010000110111110000100	886F84
4942703	110010110110101101101111	CB6B6F
101144	11111000101100011000	F8B18
7471180	111100100000000001001100	F2004C
1932131	111111010111101101100011	FD7B63
8052752	111110101110000000010000	FAE010
6359493	111000010000100111000101	E109C5
1967646	111111100000011000011110	FE061E
6575052	111001000101001111001100	E453CC
2323342	111000110111001110001110	E3738E
6735760	111001101100011110010000	E6C790
8895858	100001111011110101110010	87BD72
4238091	110000001010101100001011	C0AB0B
7093069	111011000011101101001101	EC3B4D
39	11100111	E7

Execution Time (seconds): 0.005171652000001359

!python convertNumbers.py TC3.txt

-39	11011001	D9
-36	11011100	DC
8	1000	8
34	11100010	E2
17	11110001	F1
49	11110001	F1
5	1101	D
39	11100111	E7
0	0	0
33	11100001	E1
12	1100	C
-6	1010	A
27	11111011	FB
-4	1100	C
-38	11011010	DA
26	11111010	FA
49	11110001	F1
29	11111101	FD
42	11101010	EA
-16	11110000	F0
-28	11100100	E4
34	11100010	E2
20	11110100	F4
0	0	0
25	11111001	F9
45	11101101	ED
3	1111	F
-46	11010010	D2
-46	11010010	D2
29	11111101	FD
33	11100001	E1
29	11111101	FD
26	11111010	FA
-5	1011	B
-36	11011100	DC
12	1100	C
45	11101101	ED
-50	11001110	CE
0	0	0
-6	1010	A
-39	11011001	D9
35	11100011	E3
26	11111010	FA
-35	11011101	DD
-42	11010110	D6
14	1110	E
-3	1101	D
22	11110110	F6
-47	11010001	D1
12	1100	C

-17	11101111	EF
-31	11100001	E1
-25	11100111	E7
-35	11011101	DD
-18	11101110	EE
14	1110	E
37	11100101	E5
-8	11111000	F8
-41	11010111	D7
-50	11001110	CE
-9	11110111	F7
2	1110	E
12	1100	C
-39	11011001	D9
-17	11101111	EF
0	0	0
27	11111011	FB
28	11111100	FC
45	11101101	ED
-44	11010100	D4
28	11111100	FC
35	11100011	E3
-33	11011111	DF
43	11101011	EB
-4	1100	C
23	11110111	F7
-49	11001111	CF
49	11110001	F1
-7	1001	9
-38	11011010	DA
-45	11010011	D3
5	1101	D
-21	11101011	EB
26	11111010	FA
-2	1110	E
-24	11101000	E8
6	1110	E
-45	11010011	D3
-4	1100	C
15	1111	F
0	0	0
-17	11101111	EF
-35	11011101	DD
43	11101011	EB
45	11101101	ED
-35	11011101	DD
-8	11111000	F8
28	11111100	FC
47	11101111	EF
34	11100010	E2

-24	11101000	E8
-42	11010110	D6
-13	11110011	F3
14	1110	E
-45	11010011	D3
-35	11011101	DD
27	11111011	FB
-12	11110100	F4
-19	11101101	ED
-20	11101100	EC
-14	11110010	F2
20	11110100	F4
30	11111110	FE
12	1100	C
-36	11011100	DC
-47	11010001	D1
-27	11100101	E5
-3	1101	D
6	1110	E
36	11100100	E4
9	1001	9
-16	11110000	F0
36	11100100	E4
-27	11100101	E5
7	1111	F
-6	1010	A
-5	1011	B
5	1101	D
47	11101111	EF
23	11110111	F7
-48	11010000	D0
-24	11101000	E8
40	11101000	E8
-4	1100	C
-18	11101110	EE
-19	11101101	ED
14	1110	E
15	1111	F
1	1111	F
24	11111000	F8
-9	11110111	F7
-50	11001110	CE
18	11110010	F2
15	1111	F
30	11111110	FE
44	11101100	EC
9	1001	9
19	11110011	F3
33	11100001	E1
41	11101001	E9

-24		11101000		E8
43		11101011		EB
48		11110000		F0
-23		11101001		E9
7		1111		F
28		11111100		FC
8		1000		8
-2		1110		E
37		11100101		E5
42		11101010		EA
-17		11101111		EF
-6		1010		A
36		11100100		E4
22		11110110		F6
27		11111011		FB
31		11111111		FF
-47		11010001		D1
-43		11010101		D5
0		0		0
27		11111011		FB
30		11111110		FE
12		1100		C
-15		11110001		F1
-19		11101101		ED
-42		11010110		D6
-37		11011011		DB
31		11111111		FF
-10		11110110		F6
18		11110010		F2
33		11100001		E1
-15		11110001		F1
17		11110001		F1
25		11111001		F9
-25		11100111		E7
-5		1011		B
33		11100001		E1
-13		11110011		F3
33		11100001		E1
-10		11110110		F6
47		11101111		EF
47		11101111		EF
-13		11110011		F3
-32		11100000		E0
1		1111		F
1		1111		F
-25		11100111		E7
-33		11011111		DF
16		11110000		F0
17		11110001		F1

```
4 | 1100 | C
Execution Time (seconds): 0.003457742000023245
```

#Análisis del código mejorado

```
!pylint convertNumbers.py

***** Module convertNumbers
convertNumbers.py:1:0: C0103: Module name "convertNumbers" doesn't
conform to snake_case naming style (invalid-name)

-----
Your code has been rated at 9.90/10 (previous run: 9.90/10, +0.00)
```

#Conclusiones

El código desarrollado para la conversión de números decimales a sus respectivas representaciones en código binario y hexadecimal es todo un reto sobre todo por el manejo del complemento a 2, que nos permite la representación de números con signo.

Para la implementación solamente se utilizaron algoritmos básicos como; divisiones sucesivas, inversión de bits y suma con acarreo, el código evita funciones de alto nivel como lo mencionan los requisitos, lo que nos permite comprender y evidenciar las diferentes operaciones que se involucran en el proceso de conversión.

El manejo de los números negativos que se encuentran en los archivos de datos se llevó a cabo mediante el complemento a 1 y el complemento a 2, tratando de garantizar la coherencia de los códigos binarios y hexadecimal. La extensión del bit de signo permite asegurar el valor numérico que representa.

Desde el punto de vista del diseño de software, el código muestra una estructura en módulos, nos enfocamos en que sea legible y documentado, con el objetivo de tratar de cumplir con la norma PEP8, con el objetivo de facilitar su mantenimiento, evaluación y reutilización.

El flujo en el proceso de conversión de decimal a binario y a hexadecimal refleja los procesos internos.

Los requisitos que se mencionan en el ejercicio son los siguientes:

1. El programa será invocado desde la línea de comandos. El programa recibirá un archivo como parámetro. El archivo contendrá una lista de elementos (presumiblemente números). **Se cumple con el requisito**
2. El programa convertirá los números a binario y hexadecimal. Los resultados se mostrarán en pantalla y en un archivo llamado ConversionResults. **Se cumple con el requisito**
3. El programa incluirá un mecanismo para gestionar datos no válidos en el archivo. Los errores se mostrarán en consola y la ejecución continuará. **Se cumple con el requisito**
4. El nombre del programa será convertNumbers.py. **Se cumple con el requisito**

5. El formato mínimo para invocar el programa será el siguiente python
convertNumbers.py fileWithdata.txt. **Se cumple con el requisito**
6. El programa gestionará archivos con un número de elementos que puede variar desde cientos hasta miles. **Se cumple con el requisito**
7. El programa debe incluir al final de la ejecución el tiempo transcurrido para la ejecución y el cálculo de los datos. **Se cumple con el requisito**
8. Cumplir con la norma PEP8. **Se cumple con el requisito**

Nota, correct pylint en el código sin mejoras nos envia el siguiente mensaje "**Module name 'convertNumbers' doesn't conform to snake_case naming style (invalid-name)**", al correr el código mejorado, el mensaje se mantiene, sin embargo decidimos dejar el nombre del programa como se menciona en el requisito número 4.

Los tiempos de ejecución de los diferentes archivos los mostramos a continuación:

- TC1.txt ----->> 0.005078 segundos
- TC2.txt ----->> 0.005159 segundos
- TC3.txt ----->> 0.002285 segundos
- TC4.txt ----->> 0.000850 segundos

La calificación el primer código fue de 9.83/10, mientras que el código mejorado presenta una calificación de 9.90/10. La mejoría para esta ocasión fue mínima pero se dejaron de utilizar variables locales.

Instituto Tecnológico de Monterrey

Maestría en Inteligencia Artificial Aplicada

Curso: Pruebas de Software y aseguramiento de la Calidad

Clave: TC4017.10

Profesor Titular: Dr. Gerardo Padilla Zárate

Profesora Asistente: Mtra. Viridiana Rodríguez González

Estudiante: Francisco Javier Ramírez Arias

Matrícula: A01316379

##Actividad: Actividad 4.2

##Ejercicios de Programación #3

##Descripción: Contador de palabras.

```
%%writefile wordCount.py

#!/usr/bin/env python3

import sys
import time

def read_words_from_file(file_path):
    words = []
    try:
        with open(file_path, "r", encoding="utf-8") as file:
            for line_number, line in enumerate(file, start=1):
                line = line.strip()
```

```

        if not line:
            continue

        # Manual split by spaces (basic algorithm)
        current_word = ""
        for char in line:
            if char != " ":
                current_word += char
            else:
                if current_word:
                    words.append(current_word)
                    current_word = ""
        if current_word:
            words.append(current_word)

    except FileNotFoundError:
        print(f"Error: File '{file_path}' not found.")
        sys.exit(1)

    return words

def count_word_frequencies(words):
    frequencies = {}

    for word in words:
        if word in frequencies:
            frequencies[word] += 1
        else:
            frequencies[word] = 1

    return frequencies

def write_results(results):
    with open("WordCountResults.txt", "w", encoding="utf-8") as file:
        for line in results:
            file.write(line + "\n")

def main():
    start_time = time.perf_counter()

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

    file_path = sys.argv[1]

```

```

words = read_words_from_file(file_path)

if not words:
    print("Warning: No valid words found in the file.")
    sys.exit(1)

frequencies = count_word_frequencies(words)

output_lines = []
output_lines.append("Word | Frequency")
output_lines.append("-" * 30)

for word, count in frequencies.items():
    line = f"{word} | {count}"
    print(line)
    output_lines.append(line)

end_time = time.perf_counter()
elapsed_time = end_time - start_time

output_lines.append("-" * 30)
time_line = f"Execution Time (seconds): {elapsed_time}"
output_lines.append(time_line)

print(time_line)
write_results(output_lines)

if __name__ == "__main__":
    main()

```

Overwriting wordCount.py

Conteo de palabras del archivo: TC1.txt

```
!python wordCount.py TC1.txt
```

```

mother | 1
tions | 1
pin | 1
sure | 1
regulatory | 1
shower | 1
uni | 1
dial | 1
photography | 1
buying | 1
firms | 1
nba | 1

```

father | 1
championship | 1
vagina | 1
fonts | 1
sparc | 1
explorer | 1
rl | 1
shadow | 1
danish | 1
seed | 1
hiking | 1
instrumentation | 1
introduces | 1
kinda | 1
nor | 1
newer | 1
peter | 1
contamination | 1
matters | 1
bedding | 1
achievement | 1
password | 1
conservative | 2
webcast | 1
locks | 1
cove | 1
taxes | 1
could | 1
pct | 1
adequate | 1
nightmare | 1
marathon | 1
permission | 1
cartridge | 1
clear | 1
drum | 1
trained | 1
p | 1
manufacturer | 1
leisure | 1
media | 1
journey | 1
anal | 1
teaches | 1
customized | 1
oakland | 1
louis | 1
tab | 1
consistent | 1

```
enhanced | 1
liable | 1
ebony | 1
wan | 1
pubmed | 1
math | 1
tea | 1
craps | 1
gothic | 1
permissions | 1
recorded | 1
cgi | 1
confirm | 1
hyundai | 1
exhaust | 1
malpractice | 1
pens | 1
potentially | 1
glenn | 1
scoring | 1
andrews | 1
assessed | 1
adventures | 1
meals | 1
mortality | 1
club | 1
mon | 1
comm | 1
blues | 1
collect | 1
lies | 1
seats | 1
worse | 1
guestbook | 1
influences | 1
kodak | 1
significance | 1
coastal | 1
Execution Time (seconds): 0.0009147190003204742
```

Conteo de palabras del archivo: TC2.txt

```
!python wordCount.py TC2.txt

conduct | 1
kuwait | 1
literacy | 1
table | 1
parent | 1
```

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

munich | 1
sorry | 1
delays | 1
man | 1
croatia | 1
vice | 1
opens | 1
blowjob | 1
galleries | 1
weight | 1
jeff | 1
boots | 1
clan | 1
compatibility | 1
purposes | 1
prof | 1
come | 1
jose | 1
turkish | 1
classes | 1
vessels | 1
answering | 1
sweden | 1
hampshire | 1
j | 1
responsibilities | 1
magazines | 1
rio | 1
amounts | 1
instantly | 1
fill | 1
str | 1
naturals | 1
automation | 1
apache | 1
rule | 1
goals | 1
outlook | 1
afternoon | 1
odd | 1
genome | 1
protest | 1
catalog | 1
creates | 1
bases | 1
prominent | 1
consisting | 1
minneapolis | 1
night | 1


```
tiger | 1
unity | 1
disposal | 1
cannon | 1
ou | 1
hall | 1
atomic | 1
chosen | 1
violence | 1
sectors | 1
ignored | 1
cheese | 1
frozen | 1
corp | 1
undo | 1
tba | 1
way | 1
filter | 1
win | 1
attending | 1
returned | 1
anchor | 1
sides | 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
ion | 1
interface | 1
remained | 1
icons | 1
excessive | 1
jon | 1
Execution Time (seconds): 0.0011759420003727428
```

Conteo de palabras del archivo: TC3.txt

```
!python wordCount.py TC3.txt
```

```
neighbors | 1
manual | 1
```

political | 1
mozambique | 1
old | 1
holding | 1
fc | 1
ford | 1
comparable | 1
industries | 1
antiques | 1
waste | 1
voice | 1
blond | 1
z | 1
flood | 2
enables | 1
feels | 1
validity | 1
midnight | 1
matters | 1
mortgage | 1
daughters | 1
diana | 1
notice | 3
postal | 1
reproduced | 1
mpegs | 1
persistent | 1
butts | 1
ban | 1
underground | 1
hypothesis | 1
pace | 1
ip | 1
two | 1
gourmet | 1
firms | 1
chips | 1
twelve | 1
somalia | 1
drama | 1
leaving | 1
continues | 1
poll | 1
led | 1
pottery | 2
dominican | 1
freebsd | 1
schools | 1
bunch | 1

organisms | 1
emotions | 1
governments | 1
tires | 1
calendars | 1
charity | 2
usa | 1
masturbating | 1
complexity | 1
spoke | 1
nicholas | 1
virginia | 1
mv | 1
chronic | 1
biography | 1
indigenous | 1
something | 1
pursuit | 1
suggestion | 2
breeds | 1
sorry | 1
however | 1
biol | 1
acquisition | 1
least | 1
decades | 1
wooden | 1
nonprofit | 1
medical | 1
et | 1
wonder | 1
normally | 1
pairs | 2
williams | 1
residence | 1
pale | 1
vibrators | 1
democratic | 1
affects | 1
celebration | 1
patterns | 1
medicaid | 1
look | 1
covered | 1
josh | 1
keen | 1
an | 1
want | 1
possible | 1

morocco | 1
tp | 1
electro | 1
transmit | 1
connections | 1
scripting | 1
consulting | 1
works | 1
aw | 1
impression | 1
ky | 1
prove | 1
spreading | 1
shannon | 1
cfr | 1
buddy | 1
blues | 2
rely | 1
earth | 1
pipe | 2
bible | 1
furthermore | 1
desirable | 1
allergy | 1
packard | 1
lovers | 1
haiti | 1
brutal | 1
sewing | 1
vs | 1
undergraduate | 1
must | 1
hardcover | 1
advances | 1
tomato | 1
cashiers | 1
britain | 1
thumb | 2
magic | 1
leeds | 1
poly | 1
cricket | 1
thickness | 1
ambient | 1
enormous | 1
deny | 1
song | 1
simpsons | 1
class | 1

ii | 1
restructuring | 1
gardens | 1
russian | 1
introduced | 1
strange | 1
spain | 1
cum | 1
philips | 1
capital | 1
manufacture | 1
shade | 1
aids | 1
endorsement | 1
pediatric | 1
facilitate | 1
dealing | 1
motivated | 1
nationally | 1
dress | 1
apple | 1
coordinates | 1
remaining | 1
you | 1
lie | 1
initiative | 1
walking | 1
reveals | 2
dimension | 1
texture | 1
rare | 1
serum | 1
dr | 1
subsequent | 1
california | 1
fresh | 1
scanners | 1
ri | 1
pixel | 1
swap | 1
nova | 1
marks | 1
dallas | 1
chaos | 1
pci | 1
holy | 1
republic | 1
vagina | 1
ha | 1

illustration | 1
modified | 1
democrat | 1
till | 1
susan | 1
formula | 1
benchmark | 1
markers | 1
excellence | 1
specifies | 1
dominant | 1
nights | 1
ssl | 1
beds | 1
teenage | 1
graham | 1
hazard | 1
soap | 1
register | 1
cream | 1
stays | 1
hand | 1
resort | 1
ht | 1
mrs | 1
mozilla | 1
financing | 1
continued | 1
basin | 1
myth | 1
dependent | 1
marker | 1
diamond | 1
press | 1
realtors | 1
monitored | 1
que | 1
zdnet | 1
for | 1
prev | 1
tracked | 1
locally | 1
formats | 1
slot | 1
cancel | 1
continually | 1
ecology | 1
spending | 1
hour | 1

considerations | 1
copy | 2
aruba | 1
tear | 1
analyzed | 1
ms | 1
jelsoft | 1
responsibility | 1
proved | 1
tablet | 1
memo | 1
elephant | 1
detroit | 1
dozen | 1
hairy | 1
defines | 1
strengthen | 1
catalogs | 1
muslim | 1
husband | 1
developments | 1
train | 1
hurt | 2
ml | 1
colin | 1
species | 1
steel | 1
modification | 1
easier | 1
sky | 1
purpose | 1
honest | 1
phil | 1
energy | 1
republicans | 1
bigger | 1
springs | 1
confidential | 1
internal | 1
wrote | 1
debut | 1
edmonton | 1
uses | 1
pitch | 1
consolidated | 1
sub | 1
genetics | 1
spoken | 1
microsoft | 1

crucial | 1
quest | 1
monitor | 1
women | 1
rating | 1
sox | 1
tuesday | 1
may | 1
loc | 1
waiver | 1
icon | 1
fy | 1
cyber | 1
process | 1
soviet | 1
investors | 1
forgotten | 1
explains | 1
reno | 1
likes | 1
honey | 1
investing | 1
intro | 1
copying | 1
skilled | 1
illinois | 1
muze | 1
archive | 1
clock | 1
explorer | 1
simultaneously | 1
j | 1
overnight | 1
herein | 1
jet | 1
bring | 1
bangbus | 1
others | 1
pos | 1
ya | 1
guides | 1
discharge | 1
consultation | 1
built | 1
sophisticated | 1
kent | 1
prayers | 1
christopher | 1
wma | 1

gardening | 1
closes | 1
tackle | 1
oxide | 1
significance | 1
forgot | 1
widely | 1
martin | 1
penn | 1
den | 1
webshots | 1
fluid | 1
mounts | 1
mae | 1
islamic | 1
convenience | 1
contain | 1
fd | 1
wave | 1
jar | 1
permission | 1
calculated | 1
deemed | 1
bodies | 1
belt | 1
recreational | 1
elite | 1
churches | 1
forms | 1
unless | 1
rpm | 1
bedrooms | 1
stamp | 1
conservation | 1
muslims | 1
supplement | 1
challenges | 1
causing | 1
owned | 1
providence | 1
heated | 1
evil | 1
opportunity | 1
hardly | 1
sitemap | 1
talk | 1
pink | 1
merit | 1
order | 1

declaration | 1
mighty | 1
mistress | 1
restoration | 1
pissing | 1
patents | 1
correctly | 1
deployment | 1
milk | 1
assembled | 1
detailed | 1
reggae | 1
previously | 1
television | 1
lions | 1
myself | 1
otherwise | 1
archived | 1
doc | 1
removal | 1
guidance | 1
soon | 1
cornwall | 1
environmental | 1
contracting | 1
cameron | 1
finger | 1
unlikely | 1
kuwait | 1
complicated | 1
philip | 1
helena | 1
broker | 1
bestiality | 1
developers | 1
org | 1
argued | 1
prime | 1
geography | 1
dns | 1
aside | 1
growing | 1
metropolitan | 1
interactions | 1
beverly | 1
purse | 1
cycling | 1
pirates | 1
recipients | 1

```
kingdom | 1
wal | 1
reply | 1
examples | 1
strengthening | 1
providing | 1
victory | 1
commented | 1
used | 1
debian | 1
salaries | 1
buildings | 1
utils | 1
pmc | 1
manually | 1
purchases | 1
insert | 1
improving | 1
devil | 1
dodge | 1
cables | 1
std | 1
create | 1
nipples | 1
jane | 1
holmes | 1
tea | 1
butler | 1
motels | 1
newfoundland | 1
cutting | 1
clocks | 1
infrared | 1
cowboy | 1
hormone | 1
windsor | 1
census | 1
uc | 1
declined | 1
index | 1
equipped | 1
src | 1
gradually | 1
placing | 1
Execution Time (seconds): 0.003458820000560081
```

Conteo de palabras del archivo: TC4.txt

```
!python wordCount.py TC4.txt
```

disciplinary | 1
continues | 1
literally | 2
ringtone | 2
parameter | 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
energy | 1
grid | 1
beach | 1
tools | 1
reached | 2
ethics | 1
mod | 1
preference | 1
compounds | 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
oval | 1
own | 1
crazy | 2
cameras | 1
none | 1
javascript | 2
popular | 1
corp | 1
pdf | 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
telecharger | 1
gi | 1
smooth | 1
supplier | 2
patients | 1
dsc | 1
literacy | 1
token | 1
samoa | 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
mexican | 1
merchants | 1
checklist | 1
deborah | 1
adjustable | 1
etc | 1
nu | 1
im | 1
company | 1
with | 1
pubs | 1
worker | 1
engineering | 1
based | 1
data | 2
sake | 1

cycles | 1
consoles | 1
cholesterol | 1
oecd | 1
stays | 1
just | 1
pose | 1
fought | 2
delaware | 1
ieee | 1
ge | 1
prefers | 1
dramatically | 2
folder | 1
bio | 1
logging | 1
maiden | 2
contains | 2
demographic | 1
dts | 1
dependence | 1
simple | 1
brooklyn | 1
admin | 1
gd | 1
warning | 1
diffs | 1
discovered | 1
adolescent | 1
regression | 1
dinner | 1
albuquerque | 1
showed | 1
variance | 1
vacancies | 1
metallica | 1
liable | 1
spending | 1
residential | 1
hosts | 1
scanned | 1
studies | 1
cuisine | 1
reviewing | 1
commands | 1
gtk | 1
roger | 1
killed | 1
contrary | 1
queensland | 1

deferred | 1
dd | 1
syndicate | 1
hindu | 1
cabinet | 1
stretch | 1
julian | 1
partly | 1
est | 1
panels | 2
banking | 1
racial | 2
represented | 1
defendant | 1
subject | 1
hint | 1
often | 1
ii | 1
soonest | 1
potential | 1
lil | 1
hybrid | 1
theoretical | 1
contributing | 1
gateway | 1
biggest | 1
az | 1
feelings | 1
existence | 1
shelter | 1
lows | 1
continuously | 1
pilot | 1
recovered | 1
vsnet | 1
myspace | 1
foreign | 1
started | 3
newspaper | 1
core | 1
respiratory | 1
replacing | 1
ear | 1
charts | 2
frequently | 1
reproduction | 1
stress | 1
legacy | 1
spent | 1
spice | 1

christian | 1
safer | 1
sword | 1
of | 1
ata | 1
yu | 1
math | 1
navy | 2
learned | 1
brochure | 1
suggested | 1
tired | 2
prove | 1
audit | 1
specifics | 1
stayed | 1
side | 1
sought | 1
decorative | 1
edition | 1
runner | 1
seal | 1
translate | 1
tennessee | 1
below | 1
burn | 1
bk | 1
helen | 1
farm | 2
nyc | 1
predict | 1
proud | 1
vault | 1
jeremy | 1
newsletter | 1
leadership | 1
legislative | 1
analyst | 1
tower | 1
investments | 1
goat | 1
oven | 1
preparation | 1
wound | 1
plenty | 1
bizrate | 1
pm | 1
approve | 1
arthritis | 1
detroit | 2

subsidiaries | 1
coupled | 1
expansion | 1
ben | 1
humanities | 1
teaching | 1
understanding | 1
alternatives | 1
handed | 1
millennium | 1
plays | 2
honors | 1
fs | 1
fifth | 1
something | 1
clients | 2
cuts | 1
dec | 1
shemale | 1
distributions | 1
snake | 1
folding | 1
worry | 1
dispute | 1
bridal | 1
boundary | 1
presentation | 1
sexcam | 1
offer | 1
pace | 1
far | 1
danger | 1
dawn | 1
attention | 1
hospitals | 1
destroy | 1
qualifications | 1
sk | 1
salvador | 1
cloudy | 1
reload | 1
start | 1
mountain | 1
chase | 1
periodically | 1
combination | 1
once | 1
clearance | 1
nightmare | 1
via | 1

mozambique | 1
depend | 1
dave | 1
lakes | 1
break | 1
contacts | 1
couples | 1
today | 1
jeff | 1
passwords | 1
dresses | 1
tokyo | 1
castle | 2
fridge | 1
freelance | 1
region | 1
lake | 1
obituaries | 1
gl | 1
bloom | 1
sciences | 1
speed | 1
ef | 1
illness | 1
kernel | 1
onion | 2
critics | 1
considerable | 1
lawsuit | 1
instances | 1
pocket | 1
payable | 1
entering | 1
io | 1
successfully | 1
ending | 1
klein | 1
architects | 1
prostate | 1
designers | 1
output | 1
infections | 1
book | 2
partnership | 1
eating | 1
employee | 1
import | 1
discover | 1
nice | 1
tragedy | 1

computational | 1
diamonds | 2
spotlight | 1
benchmark | 2
shut | 1
harbour | 1
procurement | 1
glow | 1
iii | 1
earn | 1
warranties | 1
portugal | 1
forgot | 1
hispanic | 1
korea | 1
silly | 1
picking | 1
detection | 1
great | 1
asian | 1
kinds | 1
producing | 1
gifts | 1
simulations | 1
vol | 1
salt | 2
install | 1
tue | 1
partial | 1
yourself | 1
electrical | 1
informal | 1
deny | 1
sparc | 2
drinks | 1
tall | 1
ocean | 1
icons | 1
subjects | 1
arabia | 1
plaintiff | 1
packet | 1
conduct | 1
assessed | 1
diamond | 1
real | 1
blade | 1
source | 1
proteins | 1
mag | 1

locking | 1
ga | 1
watches | 1
casa | 1
baby | 1
engaged | 1
dam | 1
productivity | 1
car | 1
forms | 1
nokia | 1
companies | 1
france | 1
married | 1
jeep | 1
burner | 1
sexy | 1
work | 1
dip | 1
vhs | 1
thunder | 1
declaration | 1
define | 1
scenarios | 1
saint | 1
yellow | 1
satellite | 1
epic | 1
win | 1
wild | 1
organ | 1
incorporated | 1
observed | 1
morocco | 2
fields | 1
broadcast | 1
css | 1
knives | 1
responsible | 1
thriller | 1
effective | 1
transform | 1
mh | 1
belkin | 1
stories | 1
penalties | 1
focus | 1
governor | 1
metallic | 2
cluster | 1

threatening | 1
insulin | 1
ar | 1
hampton | 2
springs | 1
nvidia | 2
tribe | 1
humidity | 2
scuba | 1
reduced | 1
ran | 1
hole | 1
copying | 1
harper | 1
bacterial | 1
closely | 1
disposal | 1
miss | 1
sending | 1
hamburg | 1
tin | 1
protocol | 1
tb | 1
char | 1
roof | 1
latvia | 1
credits | 1
harold | 1
puts | 1
chemicals | 1
buck | 1
discuss | 1
renaissance | 2
downloadable | 1
beautiful | 1
wearing | 1
would | 1
colon | 1
itself | 1
coastal | 2
latin | 1
inf | 1
marble | 1
mercury | 1
previous | 1
ate | 1
repeated | 1
calvin | 1
specified | 1
z | 1

brake | 1
ddr | 2
increases | 1
fort | 1
diseases | 2
assigned | 1
sitting | 1
preparing | 1
opened | 1
swap | 1
dev | 1
gamespot | 1
little | 1
conversion | 1
vintage | 1
greece | 1
lab | 1
federal | 1
coordinate | 1
travelling | 1
lookup | 1
recall | 1
physiology | 1
robust | 1
pointing | 1
charity | 1
books | 1
weak | 1
oman | 1
somebody | 1
np | 1
entertainment | 1
the | 1
treatment | 1
drunk | 1
tell | 1
mary | 1
hungarian | 1
levitra | 1
dallas | 1
cancel | 1
u | 1
guard | 1
circles | 1
impressed | 1
gloves | 1
dildo | 1
committees | 1
registrar | 1
promises | 1

tender | 1
texas | 1
bolt | 1
substances | 1
producers | 1
organised | 1
protest | 1
unified | 1
mesh | 1
currency | 1
owen | 1
explosion | 1
enclosure | 1
vital | 1
confidential | 2
usps | 1
similar | 1
flickr | 1
regional | 1
division | 1
vernon | 1
website | 1
glenn | 1
omega | 1
since | 2
eds | 1
poor | 2
rr | 1
sf | 1
finds | 1
reactions | 1
villages | 1
supporting | 1
seniors | 1
penalty | 1
filed | 1
yet | 1
linking | 1
es | 1
longest | 1
church | 1
limousines | 1
puppy | 1
processes | 1
consideration | 1
bike | 1
shipping | 1
blues | 1
prophet | 1

develops | 1
cartridges | 1
deliver | 1
iron | 1
chelsea | 1
southwest | 1
milf | 1
expect | 1
bryan | 1
camel | 1
cheap | 1
ftp | 1
variable | 1
weapons | 1
lots | 1
diversity | 1
classic | 1
calibration | 1
yukon | 1
jm | 1
wagon | 1
reply | 1
ion | 1
morgan | 1
tear | 1
australian | 1
everywhere | 1
labor | 1
nano | 1
switch | 1
connector | 1
equivalent | 1
saints | 1
christopher | 1
lincoln | 1
consist | 2
finally | 1
rugs | 1
however | 1
hu | 1
bend | 1
seat | 1
sarah | 1
bedrooms | 1
monroe | 1
zen | 1
uh | 1
marker | 1
macromedia | 1

elsewhere | 1
rapid | 1
berry | 1
dental | 1
cars | 1
peaceful | 1
wang | 1
consumption | 1
ill | 1
espn | 1
emergency | 1
bon | 1
winston | 1
streets | 1
biz | 1
timeline | 1
telecom | 1
circuits | 1
cv | 1
retailers | 1
words | 1
represents | 1
beside | 1
cet | 1
opera | 1
nc | 1
bt | 1
estimates | 1
christ | 1
challenges | 1
linear | 1
invitations | 1
oklahoma | 1
leasing | 1
beverage | 1
decent | 1
continually | 1
focusing | 1
poland | 1
partnerships | 1
overnight | 1
earning | 2
barrier | 1
rush | 1
hourly | 1
biographies | 1
question | 1
buses | 1
leave | 1

collar | 1
mongolia | 1
outreach | 1
spec | 1
colleges | 1
talked | 1
unfortunately | 1
grande | 1
modification | 2
shoppercom | 1
noise | 1
motivated | 1
operates | 1
gibraltar | 1
focused | 1
cst | 1
ourselves | 1
taking | 1
medicines | 1
tits | 1
exists | 1
stay | 1
shirt | 1
bingo | 1
killing | 1
prerequisite | 1
namely | 1
weekly | 1
exactly | 1
bryant | 1
duties | 1
wav | 1
var | 1
occur | 1
explain | 1
grad | 1
observe | 1
textile | 1
ruby | 1
nz | 1
operation | 1
concentrate | 1
performances | 1
begin | 1
trip | 1
hurricane | 1
have | 1
relief | 1
theaters | 1

hawaii | 1
sandwich | 1
grown | 1
upon | 1
fucking | 2
quarter | 1
thirty | 1
doctors | 1
tones | 1
luke | 1
dish | 1
ur | 1
flying | 1
stuff | 1
resumes | 1
students | 1
pb | 1
paxil | 1
browsers | 1
indicating | 1
duncan | 1
lucy | 1
turn | 1
inns | 1
openings | 1
ultram | 1
panel | 1
tested | 1
ribbon | 1
usb | 1
walked | 1
beaches | 1
war | 1
calculated | 1
prev | 1
zimbabwe | 2
bra | 1
patent | 1
shore | 1
skills | 1
wv | 1
sue | 1
hosting | 1
seasonal | 1
caps | 1
vermont | 1
paper | 1
update | 1
nikon | 1

tea | 1
uruguay | 1
virus | 1
solo | 1
berlin | 1
males | 1
washington | 1
bible | 1
wallpaper | 1
y | 1
queen | 1
trigger | 1
nearly | 1
negotiations | 1
summer | 1
escort | 1
mt | 1
pin | 1
practitioner | 1
charger | 1
tenant | 1
monetary | 1
networking | 1
risk | 1
trap | 1
proposals | 1
coordinates | 1
lenders | 1
dos | 1
dried | 1
cork | 1
settings | 1
daughter | 1
reserve | 1
tactics | 1
deals | 1
mad | 1
boobs | 1
ex | 1
pharmacy | 1
reproductive | 1
chrome | 1
encryption | 1
leu | 1
recommend | 1
collections | 1
tire | 1
invention | 1
pipes | 1

champions | 1
blend | 1
cb | 1
retrieved | 1
vulnerability | 1
kansas | 1
photographic | 1
pioneer | 1
tiffany | 2
pmc | 1
scheduling | 1
dividend | 1
shark | 1
variations | 1
booking | 1
promoting | 1
virtual | 1
slowly | 1
strips | 1
inn | 1
much | 1
fraud | 1
daniel | 1
drive | 1
equipped | 1
somehow | 1
calgary | 1
photograph | 1
strike | 1
toll | 1
native | 1
or | 1
toe | 1
programme | 1
stage | 1
tiger | 1
effects | 1
items | 1
corporate | 1
improvement | 1
stan | 1
durable | 1
controller | 1
stewart | 1
sr | 1
sculpture | 1
murder | 1
wedding | 1
gathered | 1

pas | 1
placing | 1
defense | 1
strict | 1
bowling | 1
imperial | 1
unlock | 1
resolved | 1
lately | 1
protocols | 1
direction | 1
voyuer | 1
regard | 1
foods | 1
ft | 1
dating | 1
building | 1
estonia | 1
performs | 1
equilibrium | 1
sen | 1
tahoe | 1
disclose | 1
slip | 1
midlands | 1
shemales | 1
walking | 1
racks | 1
innocent | 1
campaigns | 1
christina | 1
bulletin | 1
synthesis | 1
so | 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
Execution Time (seconds): 0.006669706000138831
```

Conteo de palabras del archivo: TC5.txt

```
!python wordCount.py TC5.txt
```

```
loaded | 2
wilderness | 5
specify | 2
cole | 1
telecom | 1
earliest | 2
uniprotkb | 1
retailer | 3
acquired | 1
reasoning | 2
breathing | 1
ozone | 3
hz | 1
consequences | 1
volume | 2
isaac | 2
milwaukee | 1
agenda | 1
roulette | 2
ordinance | 1
challenging | 1
regions | 2
faq | 1
sunset | 2
advantage | 1
masturbating | 1
biographies | 1
wednesday | 1
picks | 2
silk | 1
gossip | 2
tournaments | 1
entrepreneurs | 2
adjust | 1
designation | 2
injury | 3
```

flash | 1
baptist | 1
looksmart | 1
mason | 1
reservation | 2
trustee | 1
affairs | 1
prints | 1
enclosure | 1
routes | 1
metro | 1
gps | 4
walnut | 1
bunny | 1
bubble | 1
moscow | 3
biggest | 1
forecasts | 1
bunch | 1
myspace | 2
cancellation | 1
gambling | 1
amsterdam | 1
md | 1
introduction | 2
feel | 1
nigeria | 1
appearing | 1
system | 2
applied | 1
supplements | 2
contractor | 1
developer | 1
station | 3
du | 1
pete | 2
ie | 1
expectations | 1
places | 1
canal | 1
compute | 1
americans | 1
stating | 1
patrick | 2
assignments | 2
lucy | 1
unions | 3
authors | 1
public | 1

consist | 1
wave | 1
headline | 1
oct | 2
anytime | 1
modem | 2
sharon | 3
master | 1
keeping | 4
racial | 1
balance | 1
wire | 1
testament | 1
photos | 2
assurance | 1
casa | 1
vertical | 1
specialist | 3
loads | 1
considerable | 1
counsel | 1
deer | 1
hilton | 3
programmers | 2
possibilities | 2
ugly | 2
presentation | 2
studies | 1
block | 1
recent | 1
favorites | 1
soonest | 2
right | 1
comp | 1
navy | 2
cookbook | 1
excellence | 3
lover | 2
quest | 1
wilson | 3
most | 1
asin | 1
potter | 1
motors | 1
disputes | 1
kurt | 3
bool | 2
pulling | 1
bonus | 1

samoa | 2
maker | 2
hacker | 1
allowed | 1
soldier | 1
plastics | 1
upset | 2
dock | 1
elegant | 1
fame | 1
intense | 1
hoped | 2
keith | 2
recognised | 2
over | 1
focusing | 1
landscape | 2
desperate | 1
attraction | 1
wp | 1
mariah | 1
warnings | 1
ia | 1
je | 2
evaluating | 1
screensaver | 2
served | 1
calgary | 2
sponsor | 2
aim | 1
thoroughly | 1
richmond | 1
federal | 2
which | 1
nutten | 1
gate | 2
river | 3
dangerous | 1
reseller | 3
argue | 1
busty | 1
theatre | 2
travelling | 4
predicted | 1
discovery | 1
broker | 1
sku | 1
turkish | 2
managed | 5

witnesses | 2
gaming | 2
tribune | 1
threats | 4
albums | 1
converted | 1
hospitality | 1
troy | 1
separately | 2
hoping | 2
therapist | 1
souls | 3
panic | 1
cigarette | 1
detailed | 2
neighborhood | 1
lone | 1
strict | 1
improved | 2
exemption | 1
afterwards | 1
writes | 1
patricia | 1
fwd | 2
revolutionary | 3
rehabilitation | 1
trusted | 1
subject | 1
di | 1
mitsubishi | 2
sponsors | 1
tackle | 1
ti | 1
visibility | 2
student | 2
universal | 3
described | 2
offset | 2
verzeichnis | 1
shut | 2
screens | 2
classification | 1
previews | 1
retail | 1
continental | 1
slight | 1
matched | 3
saw | 2
ref | 2

attach | 1
laundry | 3
warren | 2
rooms | 1
coleman | 2
meant | 3
de | 1
anybody | 1
female | 1
myself | 1
fortune | 1
lane | 3
exec | 1
lender | 1
triangle | 1
speaker | 1
inches | 2
insider | 1
reserved | 1
darwin | 1
mixture | 3
rights | 1
negotiation | 2
tee | 1
andy | 1
occasion | 2
yn | 1
confused | 1
differential | 1
doug | 1
anywhere | 1
like | 1
immediately | 1
arise | 1
schools | 5
nicaragua | 1
cover | 1
occurrence | 2
ar | 2
horse | 1
climb | 2
directories | 1
given | 2
burner | 1
original | 3
idol | 2
proceedings | 1
uganda | 2
ted | 1

competing | 1
game | 3
passion | 4
exclusively | 2
pda | 2
spirit | 2
translations | 2
council | 1
turns | 1
dead | 1
spell | 2
cost | 1
veterans | 1
themes | 2
singh | 1
gel | 1
upskirts | 2
conferences | 1
horn | 2
yo | 2
attendance | 1
normally | 1
helpful | 2
raymond | 1
tablets | 3
astrology | 1
closest | 1
steering | 2
carlos | 1
lights | 2
hours | 1
tasks | 1
resulting | 2
scroll | 2
touched | 1
cet | 1
pdas | 1
generous | 1
historic | 1
belle | 1
indigenous | 1
hh | 1
katie | 1
those | 1
focuses | 1
offshore | 1
neighbor | 1
loans | 1
cursor | 1

cr | 2
outsourcing | 2
anthropology | 1
mistakes | 1
introduce | 1
slot | 1
bouquet | 1
horizon | 2
replication | 1
bags | 1
del | 1
blvd | 1
reel | 2
sister | 1
invasion | 1
depending | 1
beings | 1
defend | 2
fresh | 1
push | 2
flight | 2
recommend | 2
iso | 1
scanners | 1
jonathan | 2
tourist | 1
entries | 3
pull | 1
thing | 2
filed | 3
router | 3
karen | 2
blind | 2
concentrations | 1
listings | 3
earnings | 1
v | 3
thickness | 1
measure | 1
midnight | 2
integrate | 1
victor | 1
bless | 2
pointing | 3
manufacturing | 3
sector | 2
arkansas | 1
regardless | 2
mounted | 1

blues | 1
ways | 1
blanket | 1
intel | 1
boxing | 2
locally | 3
broken | 1
liabilities | 1
antique | 1
freight | 1
valued | 2
world | 2
bw | 2
display | 1
witch | 2
ye | 1
rid | 1
separated | 1
remainder | 2
hay | 1
wm | 2
ave | 1
emperor | 1
harrison | 2
happened | 1
hazard | 2
excerpt | 2
brian | 1
integer | 1
smoking | 2
eventually | 1
church | 1
citizens | 1
frequent | 1
sv | 1
opens | 4
choir | 1
informational | 1
cooked | 1
fascinating | 2
inkjet | 2
tell | 2
was | 1
began | 1
horizontal | 2
harmful | 1
satellite | 1
rapidly | 1
michael | 1

basically | 1
propose | 3
textbooks | 2
helping | 2
raises | 1
stan | 2
sorted | 2
well | 1
exceptions | 1
products | 4
desire | 1
finished | 1
sf | 2
employment | 1
glenn | 1
dome | 1
teens | 1
expansion | 1
packs | 2
camcorder | 1
text | 2
charging | 1
define | 1
represent | 1
twice | 1
eau | 3
evening | 1
rider | 1
minolta | 1
cam | 1
leader | 1
salon | 2
catalog | 1
orbit | 2
coordinate | 1
erotic | 1
examining | 1
cedar | 2
venues | 1
solar | 1
saver | 2
killer | 2
electrical | 1
metabolism | 1
trail | 1
halo | 2
rides | 2
technical | 2
calibration | 1

fighter | 2
sheep | 2
sustainability | 2
lafayette | 1
owned | 3
bernard | 1
emirates | 2
blend | 1
lazy | 1
webcams | 4
saalem | 1
indexed | 2
sync | 3
treasurer | 2
terrorists | 1
eligible | 1
fold | 3
staffing | 2
degree | 1
commissioners | 1
buyer | 1
sometimes | 1
warcraft | 1
auckland | 1
married | 1
transexual | 2
larger | 1
mats | 2
tragedy | 2
sean | 1
earl | 2
residential | 1
jurisdiction | 1
fossil | 2
tumor | 1
obligations | 2
configuring | 1
relax | 1
presents | 2
walking | 2
play | 1
panties | 1
witness | 2
punishment | 1
bookmark | 1
flag | 2
drum | 1
disclosure | 1
key | 3
hats | 1

manitoba | 1
harmony | 1
reform | 1
chester | 1
reporter | 2
viral | 2
bob | 1
thailand | 2
cams | 2
reply | 2
reviews | 1
small | 1
registered | 2
penny | 1
phrase | 1
scan | 1
efforts | 1
closely | 2
donna | 1
send | 1
warrant | 1
demands | 1
train | 1
trinity | 1
flashing | 1
upskirt | 3
condo | 1
chrome | 2
fathers | 1
federation | 1
availability | 1
switch | 1
thick | 2
voting | 1
investigated | 1
gotta | 1
blood | 1
carb | 1
reproductive | 1
terrorist | 4
visiting | 1
oclc | 2
talent | 2
gently | 1
fishing | 1
boulevard | 1
pregnancy | 2
knowledgestorm | 1
published | 4

louisie | 1
usda | 2
writer | 1
volunteers | 1
damages | 1
norfolk | 1
criterion | 1
trailer | 1
diff | 1
torture | 2
becomes | 1
participation | 1
submit | 2
thriller | 1
satisfaction | 1
brake | 1
continually | 1
schemes | 1
princeton | 2
chess | 1
muscle | 1
nudity | 1
dramatically | 1
packaging | 1
holmes | 1
topless | 2
boc | 1
topic | 1
chen | 1
cook | 1
geo | 2
inf | 3
barbados | 1
caps | 1
collectibles | 1
salvador | 1
pamela | 1
doe | 1
catalyst | 1
desirable | 2
marilyn | 1
respond | 2
ru | 2
facts | 1
pays | 3
feeding | 1
museum | 2
clearance | 1
investigator | 1

drove | 2
path | 1
vegas | 1
coupons | 1
happens | 2
let | 1
old | 1
leeds | 1
sport | 3
bluetooth | 1
petersburg | 4
genres | 1
resort | 1
line | 2
simulations | 1
getting | 2
fun | 1
portfolio | 2
eh | 1
performer | 1
bahamas | 1
fibre | 1
individual | 1
log | 2
cambodia | 1
nice | 2
modems | 1
justice | 2
starts | 2
maximize | 2
classroom | 1
directory | 1
italy | 3
timing | 1
domestic | 1
endless | 1
sells | 3
tariff | 3
bruce | 1
tutorials | 1
seller | 2
baskets | 1
bag | 1
manufactured | 4
knowledge | 2
framing | 1
newspapers | 2
influence | 1
charlotte | 1

specifically | 1
unusual | 3
shipped | 1
blink | 1
naples | 1
intellectual | 1
boobs | 2
voyeurweb | 1
thin | 1
sexuality | 1
language | 1
unique | 2
teddy | 1
barcelona | 1
clay | 1
painting | 2
latin | 1
webmaster | 3
sprint | 2
locks | 1
find | 1
dynamic | 1
located | 2
milfhunter | 2
cyber | 1
requiring | 2
nottingham | 1
termination | 1
bound | 1
stay | 1
ralph | 1
narrative | 1
outline | 2
principle | 1
luggage | 1
illinois | 1
kits | 1
seasonal | 1
informative | 1
oil | 2
imports | 1
privileges | 1
usr | 2
distant | 1
personal | 1
corrections | 1
entity | 1
hills | 1
proxy | 2

dog | 1
sega | 3
competitors | 1
variance | 2
coalition | 1
dictionary | 1
oasis | 1
servers | 2
parliamentary | 1
pig | 2
contained | 1
clearing | 1
resulted | 1
olympic | 1
trip | 1
fin | 1
mineral | 1
pan | 1
wizard | 1
wayne | 1
penn | 1
livecam | 1
mortgage | 2
stream | 2
software | 1
brochures | 1
treated | 2
patent | 2
jpg | 1
horrible | 1
skype | 2
thrown | 1
tent | 2
status | 1
houston | 2
coated | 2
nights | 1
copy | 1
kentucky | 2
spine | 1
contribute | 1
trading | 2
establishing | 2
combines | 1
lean | 1
terrace | 1
condition | 1
sierra | 1
manager | 1

holidays | 1
believes | 1
cox | 1
campus | 1
section | 1
web | 3
glory | 2
birthday | 1
eos | 1
wherever | 1
nursing | 2
ja | 1
pink | 2
technological | 2
despite | 2
think | 2
distributor | 1
dr | 1
ce | 1
homes | 1
stop | 2
suggestions | 4
sustainable | 1
cologne | 1
finishing | 2
gtk | 3
greater | 1
numeric | 2
keywords | 1
craps | 1
rec | 3
skirts | 2
mileage | 1
circle | 1
wiki | 1
hill | 2
practitioners | 1
essence | 2
thumb | 1
estimation | 1
walls | 1
collective | 1
shaft | 1
rn | 2
sacrifice | 2
pic | 2
nicholas | 2
polished | 1
publicly | 3

ipod | 1
experiences | 1
whore | 1
dies | 2
lawrence | 1
ooo | 1
wages | 1
iraqi | 1
genuine | 1
correspondence | 1
reno | 1
bringing | 1
euro | 3
weblog | 3
rp | 1
signature | 3
er | 2
digit | 1
episode | 1
rod | 1
putting | 2
pad | 2
close | 1
rio | 2
oriented | 1
belly | 1
curriculum | 1
timeline | 1
oval | 1
self | 3
futures | 1
triple | 2
processed | 1
lauren | 1
mother | 1
pf | 1
slut | 1
tampa | 3
firmware | 1
type | 1
pets | 5
substantially | 1
subdivision | 2
gold | 2
physiology | 2
broadcasting | 1
inns | 1
ruby | 1
consequence | 1

bits | 1
martial | 3
lows | 2
nationally | 2
manhattan | 1
instrumentation | 1
hometown | 1
hey | 1
zen | 1
noble | 1
edmonton | 2
multiple | 1
decrease | 1
http | 2
organic | 2
portland | 1
margaret | 4
safe | 1
latino | 1
remember | 3
uri | 1
lowest | 2
grown | 2
terrible | 1
um | 3
golf | 2
mandatory | 1
soon | 1
space | 2
hour | 1
spent | 1
tray | 1
mart | 1
tools | 1
explain | 4
milton | 1
sets | 2
episodes | 1
intl | 2
uncertainty | 1
spaces | 1
toxic | 1
jump | 3
crack | 1
nsw | 1
two | 3
erotica | 1
platform | 1
enb | 2

practice | 1
brave | 1
restructuring | 1
improvement | 2
efficient | 1
players | 1
pam | 2
ebook | 2
distance | 2
notes | 2
merchandise | 2
transmit | 1
trademarks | 2
reflect | 1
closure | 1
show | 1
prediction | 2
rugby | 1
peers | 1
knives | 1
briefs | 1
middle | 1
recreational | 1
proprietary | 1
cleaning | 1
mw | 1
debian | 1
veteran | 2
notebooks | 1
bottle | 1
recommends | 4
qty | 1
ftp | 1
wallpapers | 1
photographer | 1
flexible | 1
tr | 3
shortly | 1
failure | 1
clause | 1
hero | 2
kind | 2
yrs | 3
ukraine | 3
depression | 1
evolution | 1
erik | 1
characterization | 1
indians | 1

refine | 1
metadata | 1
cartoons | 1
emails | 1
ict | 2
pulse | 2
specifies | 1
packed | 2
hiring | 1
exploration | 1
installed | 2
composite | 1
customers | 1
gale | 1
expo | 1
rpm | 2
secretary | 3
ranking | 1
demographic | 1
linked | 2
elect | 2
riding | 2
yourself | 1
cloudy | 1
cb | 2
views | 2
multimedia | 1
quick | 2
latvia | 1
incidence | 1
prague | 2
harper | 1
fixes | 1
shopping | 2
european | 1
utilize | 1
events | 1
resistant | 1
diy | 1
breakfast | 1
priest | 1
revised | 1
dear | 1
locked | 1
marathon | 2
join | 3
tyler | 3
pricing | 2
predict | 1

revenge | 1
carter | 1
handmade | 2
elvis | 1
this | 2
duration | 1
wrote | 2
ericsson | 1
sustained | 1
holdem | 1
includes | 1
invoice | 2
tower | 1
lesbians | 1
jar | 2
grenada | 1
precious | 2
previous | 1
opening | 1
deaths | 1
irish | 1
late | 3
normal | 1
pitch | 2
worldcat | 4
surface | 1
face | 1
willing | 2
happy | 2
publish | 1
engineering | 2
powder | 1
develop | 1
producing | 2
execution | 1
duck | 1
figure | 1
watches | 2
departmental | 1
junction | 1
integrity | 1
gang | 1
task | 1
webster | 1
exception | 1
quantum | 1
pregnant | 3
semiconductor | 2
suspended | 1
girlfriend | 1

shots | 1
chapter | 1
embedded | 1
theaters | 2
usually | 1
portuguese | 1
changed | 1
stewart | 1
softball | 1
sound | 1
flower | 1
mixed | 1
extraordinary | 1
medicare | 2
construction | 1
harm | 2
vessels | 1
main | 2
corps | 1
doctors | 1
exploring | 2
found | 2
robot | 2
conservative | 1
leonard | 3
te | 3
strengths | 1
literary | 3
murder | 2
sitemap | 2
sufficient | 2
persian | 2
ratios | 1
cow | 1
pac | 1
ss | 1
issn | 2
identified | 1
rim | 2
inc | 1
govt | 1
corpus | 3
da | 1
coating | 1
hundreds | 1
dx | 1
indexes | 1
recommendations | 1
christian | 1

textile | 1
opponent | 1
length | 2
participant | 1
promised | 1
optimum | 1
mines | 3
egypt | 1
unlock | 2
lp | 1
chronicle | 1
portrait | 2
monster | 1
prozac | 2
usps | 1
pharmacology | 2
pirates | 1
motels | 1
guided | 3
florists | 1
laden | 1
ui | 3
hamilton | 1
pakistan | 1
impression | 1
superintendent | 1
cambridge | 1
inclusion | 3
urge | 1
recorded | 3
tony | 1
herald | 1
ten | 1
formats | 2
database | 2
desired | 1
green | 1
hentai | 2
palestinian | 1
proceeding | 2
roland | 1
cigarettes | 1
mens | 1
junk | 1
fragrance | 2
suit | 1
cv | 1
xhtml | 1
lou | 1

wrap | 4
mobility | 1
sonic | 2
headset | 2
rational | 1
engaged | 1
patrol | 2
employers | 4
fri | 1
knight | 2
void | 1
disks | 1
compliance | 1
rehab | 1
james | 1
med | 1
happening | 1
nightmare | 2
eagle | 2
jewellery | 1
diabetes | 2
museums | 1
eric | 1
liverpool | 1
sentence | 1
rhythm | 2
charter | 1
levitra | 1
exhibitions | 1
nokia | 3
carnival | 1
column | 1
validity | 3
payable | 2
meyer | 2
rolled | 1
seeks | 3
operating | 2
modes | 1
librarian | 2
decimal | 1
drinks | 3
munich | 3
runtime | 2
capitol | 1
hampton | 1
streams | 2
response | 1
provider | 2

clubs | 1
farm | 1
seems | 2
untitled | 1
mainly | 1
poll | 1
thu | 1
estimates | 1
chambers | 1
surrounded | 2
promise | 1
user | 3
flickr | 1
israel | 1
habits | 3
dicks | 1
laptops | 1
sam | 1
coat | 1
tree | 2
scotland | 2
jpeg | 1
livestock | 1
seattle | 2
gay | 1
prominent | 1
ordinary | 2
difference | 1
instant | 1
yr | 2
packing | 2
you | 1
std | 1
rich | 2
dresses | 1
newfoundland | 3
grants | 1
speakers | 2
wells | 1
sapphire | 2
ez | 1
site | 1
useful | 4
travelers | 1
snap | 2
richard | 1
nhs | 1
created | 1
shine | 3

supposed | 1
occupations | 3
hispanic | 1
hollow | 2
selecting | 1
dev | 1
trap | 3
swap | 1
message | 3
setup | 1
using | 1
enhancements | 1
mpeg | 1
photograph | 2
chose | 1
meals | 2
conclusions | 1
tattoo | 1
pci | 3
intent | 2
founded | 3
obviously | 1
from | 2
gather | 2
regime | 1
richardson | 2
cave | 1
fifth | 2
www | 3
radio | 1
sanyo | 1
surge | 1
there | 1
chaos | 1
ceremony | 1
sphere | 1
pictures | 2
jones | 1
valium | 2
size | 2
floral | 1
get | 1
factors | 1
fatal | 2
risks | 3
coordination | 1
picking | 2
reveal | 1
hook | 1

token | 2
ferry | 1
officially | 1
confirmed | 1
hydrocodone | 1
customise | 1
hair | 1
satisfied | 3
worcester | 1
occasional | 1
readings | 2
leon | 3
week | 1
exchange | 1
payday | 1
double | 2
collectors | 1
press | 2
crawford | 1
dude | 3
labs | 1
introductory | 1
firms | 2
trace | 1
continuous | 1
stated | 1
requires | 3
monroe | 2
logged | 2
sudan | 1
piece | 2
forgotten | 2
francisco | 1
rebates | 3
leslie | 1
flashers | 1
police | 2
nb | 4
route | 1
sign | 1
vid | 1
town | 1
molecules | 1
victory | 1
moon | 2
dm | 1
previously | 1
thee | 1
sink | 2

vibrator | 2
performing | 1
cms | 1
technique | 1
improve | 1
naval | 2
reliable | 1
refuse | 1
independence | 1
owner | 1
emily | 1
consolidation | 1
clinic | 1
runner | 1
longitude | 1
postings | 1
fist | 1
fees | 1
labour | 1
rg | 1
employer | 2
ultimately | 2
highway | 1
samsung | 2
worth | 1
shakespeare | 2
essential | 1
colonial | 1
meet | 1
plates | 1
widely | 2
hl | 3
expressions | 1
strip | 3
circles | 1
submission | 1
expanding | 2
neck | 1
compatibility | 1
threshold | 2
colored | 2
transcription | 2
seed | 2
plan | 1
xerox | 1
indices | 1
regularly | 1
cuisine | 1
newport | 1

orientation | 2
nearly | 2
legitimate | 2
keno | 2
senator | 1
summer | 3
savings | 1
though | 1
fifty | 1
remote | 2
rangers | 1
projected | 1
question | 1
ka | 1
sap | 1
concerning | 1
eugene | 1
trim | 1
civilization | 1
switches | 2
testing | 1
defendant | 1
fully | 2
pontiac | 1
whereas | 2
portraits | 2
dave | 1
last | 1
kids | 1
projector | 2
sbjct | 1
rica | 3
ships | 1
representatives | 3
explicit | 3
infected | 1
jm | 1
enter | 1
lbs | 2
peace | 1
please | 1
plc | 2
sail | 1
computed | 1
considering | 1
fancy | 2
grill | 1
definitions | 1
photographic | 1

permanent | 2
low | 1
sunrise | 2
legal | 2
towns | 2
clips | 1
singer | 1
colorado | 1
imagination | 1
respondent | 1
conceptual | 1
ni | 2
mongolia | 2
constant | 1
soc | 1
enlargement | 1
subjects | 3
diane | 1
forums | 2
shot | 1
legendary | 2
throwing | 3
showers | 2
depend | 1
resolved | 2
need | 1
keep | 3
dist | 2
repeat | 1
selective | 1
practical | 1
helicopter | 1
detective | 1
reward | 1
sep | 1
library | 1
speeds | 1
newest | 1
focus | 1
instrument | 1
photo | 2
towards | 2
resolution | 2
lined | 1
traveler | 2
portions | 1
contrast | 1
construct | 1
crap | 1

publication | 1
completed | 1
deluxe | 1
england | 2
switzerland | 2
killing | 1
navigate | 2
terminal | 2
knit | 2
roots | 1
fred | 2
index | 1
grocery | 2
scott | 1
tries | 1
continuously | 1
twenty | 2
com | 1
pole | 1
derby | 1
unlikely | 1
reliability | 1
signed | 1
hybrid | 1
frank | 2
kingston | 2
reproduce | 1
ecological | 2
treasures | 1
prophet | 1
source | 2
powerpoint | 2
criticism | 1
pgp | 2
populations | 1
harris | 3
yeah | 1
want | 2
zdnet | 2
ser | 1
include | 1
fixed | 1
distinction | 1
gazette | 2
order | 2
commented | 1
overview | 3
jeep | 1
farmers | 1

why | 3
mortgages | 1
reverse | 2
facial | 1
environmental | 1
prompt | 1
marks | 1
scene | 1
urban | 2
repairs | 1
wordpress | 2
ht | 1
emotions | 1
partially | 2
subscribe | 2
respected | 3
russell | 1
matter | 3
prix | 1
dp | 1
totally | 1
emphasis | 2
grace | 1
len | 2
font | 1
deborah | 1
required | 2
mandate | 2
kill | 1
directive | 1
help | 1
represented | 3
politicians | 1
dec | 1
total | 1
cope | 1
lie | 1
detroit | 1
layout | 2
poetry | 1
restricted | 1
suse | 1
supported | 1
serbia | 3
maintains | 1
jamie | 1
thumbnail | 1
van | 2
vocabulary | 1
norm | 1

drops | 2
warranties | 3
whilst | 1
dosage | 1
creation | 1
fiji | 1
dynamics | 1
denver | 1
editorials | 1
fit | 1
making | 1
pdt | 1
greece | 2
dirty | 1
radiation | 1
ny | 1
thousand | 1
leading | 1
discs | 1
mainstream | 1
hose | 1
paste | 1
fa | 1
sexo | 2
cooperative | 1
cubic | 1
strength | 1
june | 2
nurses | 2
tuesday | 1
means | 1
fly | 2
relaxation | 1
inflation | 1
harry | 1
multi | 1
negative | 1
former | 1
finder | 1
usage | 3
temperature | 1
taxi | 2
disney | 1
lauderdale | 1
sept | 1
opt | 2
dominican | 1
config | 1
say | 1

forget | 1
taiwan | 1
seem | 1
henderson | 1
trout | 1
sales | 2
vibrators | 1
molecular | 1
graph | 2
critics | 1
family | 1
suburban | 1
dozens | 2
ice | 1
testimonials | 2
ph | 2
watts | 1
rv | 1
deliver | 1
drunk | 1
musicians | 1
yea | 1
seas | 1
increasing | 2
news | 1
handled | 2
joyce | 1
til | 1
fight | 1
mike | 1
connecticut | 1
gary | 1
wed | 1
executive | 1
wang | 1
strategies | 1
soa | 1
prince | 2
shield | 1
databases | 1
pocket | 2
madrid | 1
purchase | 2
television | 1
noise | 1
escorts | 1
upload | 1
mixer | 2
wichita | 1

infant | 1
few | 1
postage | 1
guy | 1
prescription | 1
stopping | 2
propecia | 1
stephen | 1
intersection | 1
guitar | 1
sorry | 1
mentioned | 2
random | 1
leasing | 2
invention | 2
worthy | 1
named | 1
olive | 2
reset | 1
resident | 1
physicians | 1
secretariat | 1
sounds | 2
tub | 1
laura | 1
requirements | 1
davis | 1
price | 1
such | 1
result | 1
fantastic | 1
silicon | 1
indianapolis | 1
keyboards | 2
settings | 2
visit | 1
fix | 1
nuclear | 2
mazda | 1
rain | 2
lessons | 1
toolbox | 1
qualities | 4
favorite | 2
theories | 1
margin | 2
organized | 1
proof | 1
pct | 1

toshiba | 2
haiti | 1
transfers | 1
sources | 1
hop | 1
fort | 2
penetration | 2
farms | 1
convenience | 1
instructor | 1
jane | 2
der | 1
dakota | 1
contents | 1
hottest | 1
metropolitan | 1
livesex | 2
serves | 1
ties | 2
premier | 1
tribal | 2
settlement | 1
grip | 1
hope | 1
l | 1
partners | 1
quarters | 2
wow | 1
jury | 1
reaction | 1
soup | 2
whole | 2
shadow | 1
macro | 1
hold | 2
tables | 3
consultant | 1
mary | 1
limited | 1
not | 2
shed | 1
divorce | 1
resistance | 2
signs | 1
looking | 1
kick | 1
treasure | 2
lithuania | 1
vitamin | 2

moderate | 1
refurbished | 2
factory | 1
liz | 1
hands | 1
sewing | 1
nam | 1
duke | 1
countries | 1
stainless | 1
shaved | 1
ongoing | 1
findlaw | 1
twisted | 2
network | 2
finances | 1
members | 1
vitamins | 1
moral | 2
dem | 1
subcommittee | 1
wanting | 1
reason | 1
preference | 1
scotia | 1
tall | 2
gm | 1
pp | 2
nerve | 1
sur | 1
following | 1
hawk | 1
mali | 1
inventory | 2
dealt | 1
remove | 1
ne | 1
tech | 2
encounter | 1
valentine | 1
pound | 1
guardian | 1
priced | 3
event | 2
mounts | 2
staying | 2
next | 1
doctor | 1
sao | 1

drivers | 1
reunion | 1
grey | 1
ira | 1
debate | 1
hopefully | 1
tip | 2
outdoor | 1
retreat | 1
expired | 1
incoming | 1
yen | 1
parks | 2
fabrics | 1
mug | 1
eddie | 1
hall | 1
wound | 1
sexually | 2
renaissance | 2
islam | 1
product | 2
forty | 1
iraq | 3
spy | 1
rj | 1
generally | 1
preventing | 1
faster | 1
terms | 1
openings | 1
hollywood | 1
wu | 1
instance | 1
spec | 3
thinkpad | 2
ep | 2
sentences | 4
improving | 1
goals | 1
lens | 1
pressure | 1
imagine | 1
warriors | 1
invasion | 2
heated | 1
queries | 1
desktops | 1
dns | 1

symposium | 3
involvement | 1
powell | 1
races | 1
toy | 3
said | 1
shipping | 1
elizabeth | 1
suite | 1
patents | 2
polls | 1
prerequisite | 1
readily | 1
cosmetic | 1
quantities | 1
elected | 1
sat | 1
markets | 1
free | 1
spirits | 3
rebecca | 1
migration | 3
tranny | 2
girls | 1
mtv | 1
mo | 1
operator | 1
mild | 1
searchcom | 1
workshop | 2
liberty | 1
quarterly | 1
likelihood | 1
lisa | 1
manuals | 1
dept | 1
organizations | 3
simon | 1
tabs | 2
gain | 1
principal | 1
lg | 3
roll | 1
signal | 1
ing | 1
tribute | 2
roster | 1
ln | 1
marvel | 1

victims | 2
forever | 1
install | 1
shooting | 2
est | 1
tested | 1
julia | 2
trio | 2
jets | 1
lovers | 2
downtown | 3
ext | 1
related | 1
trucks | 1
obesity | 1
institute | 2
displaying | 1
everywhere | 2
symphony | 1
nirvana | 1
postal | 1
principles | 1
formatting | 1
pet | 1
funded | 1
missile | 2
talented | 1
suppliers | 1
dans | 1
drill | 2
majority | 1
outputs | 1
gifts | 1
microphone | 2
evans | 2
organize | 1
vehicles | 1
plaza | 1
institutions | 2
loop | 2
letter | 1
disposal | 1
we | 1
draw | 1
hd | 1
operation | 1
examinations | 1
viewers | 1
incident | 2

pl | 1
winds | 1
oral | 2
fares | 1
lime | 1
evaluations | 2
royal | 1
violence | 1
stomach | 1
touring | 1
wagner | 1
latinas | 2
un | 1
protected | 1
hotmail | 2
southampton | 1
sie | 1
medicines | 2
then | 2
hawaiian | 1
intro | 1
gravity | 1
kg | 5
lm | 1
door | 1
recreation | 3
exclusion | 2
yemen | 1
retrieved | 1
robin | 2
gordon | 1
split | 2
motorcycle | 1
straight | 2
guitars | 2
grove | 1
tex | 1
tobago | 2
sofa | 1
thirty | 3
donate | 1
painful | 1
kay | 3
pages | 2
recipients | 1
marked | 1
ministry | 2
el | 2
fast | 1

gross | 1
luther | 1
efficiency | 2
petite | 1
inexpensive | 1
perfume | 1
tension | 2
resorts | 2
work | 1
updated | 1
rating | 2
screening | 2
teenage | 1
minimize | 2
worry | 1
xml | 2
possibly | 2
milk | 1
marking | 2
similarly | 1
sudden | 2
paid | 2
her | 1
editors | 1
deleted | 1
side | 2
fence | 1
finnish | 2
delicious | 1
pillow | 1
unavailable | 1
unfortunately | 2
elements | 1
mechanical | 1
showed | 1
pts | 1
sh | 1
def | 1
statistics | 3
eternal | 1
frontier | 1
seasons | 4
weblogs | 2
playlist | 2
pace | 1
studying | 1
details | 1
forward | 2
nt | 3

disposition | 1
fiction | 2
lounge | 2
loud | 4
lincoln | 1
father | 1
porsche | 2
spears | 2
expenses | 1
identify | 1
problem | 1
people | 1
tvs | 1
lives | 1
yield | 2
enabled | 1
pair | 2
permission | 2
economy | 1
kelly | 1
stickers | 1
moving | 2
doom | 1
invite | 1
shoppingcom | 2
transexuales | 2
heating | 2
sunglasses | 1
isbn | 1
provinces | 1
snowboard | 1
standing | 3
university | 1
pathology | 1
waterproof | 2
lamp | 1
infection | 1
parent | 1
through | 1
hat | 2
samples | 2
storm | 2
squad | 1
mod | 1
gourmet | 1
mission | 2
likely | 2
flu | 1
projects | 1
operate | 1

wallace | 1
have | 1
pubmed | 1
operates | 2
foundation | 1
forests | 1
vatican | 1
outcome | 1
house | 1
incentives | 1
monthly | 1
throws | 1
ons | 1
literacy | 1
physical | 2
prime | 2
outlet | 1
platforms | 1
tim | 1
mature | 3
routine | 1
pros | 1
hist | 1
reporting | 1
nikon | 1
son | 3
weapon | 2
hyundai | 1
subsequent | 1
maternity | 2
fisher | 1
reviewing | 2
rows | 2
produce | 1
six | 2
serum | 1
permalink | 1
instruments | 2
samba | 1
rx | 3
omissions | 1
looks | 1
grammar | 1
precise | 1
html | 1
roles | 1
soviet | 1
venezuela | 1
forecast | 1

management | 1
np | 1
ought | 2
technician | 1
recovered | 1
marcus | 1
vids | 1
toronto | 1
educational | 1
uzbekistan | 2
participating | 1
dollars | 1
manufacturers | 1
running | 1
sand | 2
offense | 1
shorts | 2
grade | 1
ontario | 1
iii | 1
sa | 1
encourages | 1
someone | 1
pixels | 2
thumbzilla | 1
stuff | 1
plugin | 1
providers | 2
faqs | 1
rage | 1
legislature | 1
legislation | 1
hazards | 2
streets | 1
disciplines | 1
ourselves | 1
modeling | 1
journalism | 1
fd | 1
doing | 1
rat | 1
furnished | 1
pope | 1
misc | 1
pot | 2
science | 1
history | 1
southwest | 2
rendered | 2

housewares | 1
protect | 1
edt | 1
parts | 1
networks | 1
goes | 1
lloyd | 1
gospel | 1
mexican | 1
instead | 1
rear | 1
moves | 1
structural | 2
finals | 1
grad | 1
pharmaceutical | 2
do | 1
nodes | 1
guaranteed | 1
stripes | 1
yarn | 3
kills | 2
suggest | 1
tablet | 3
moore | 1
ea | 2
earned | 1
encouraging | 1
plants | 3
rubber | 1
hierarchy | 1
ec | 1
safely | 1
pushed | 2
nj | 2
foundations | 1
planners | 2
india | 1
fy | 1
native | 1
ensure | 1
helena | 1
locale | 1
maria | 1
montana | 1
medication | 1
ol | 2
hydrogen | 1
dna | 1

tract | 1
extends | 1
skills | 1
josh | 1
logistics | 1
duties | 1
une | 2
troops | 1
instructions | 2
telescope | 1
pins | 1
ireland | 1
regression | 1
stud | 1
lance | 1
tale | 1
investigation | 1
song | 1
domains | 1
lower | 1
threesome | 1
economies | 1
pipe | 1
measured | 1
election | 1
jewelry | 2
hotels | 2
inclusive | 1
vegetables | 1
hopes | 2
rap | 1
infinite | 1
prefix | 1
rl | 1
rw | 1
thehun | 1
stevens | 1
protective | 1
sale | 1
equity | 1
judgment | 1
travel | 1
monetary | 2
recipes | 1
offering | 1
newark | 1
heart | 1
holds | 2
mall | 1

singing | 1
monitoring | 2
query | 1
submitted | 2
mention | 2
gregory | 1
including | 1
promotions | 1
outcomes | 1
ears | 1
industry | 1
expansys | 1
on | 1
rel | 1
longer | 1
inn | 1
reflection | 1
poker | 3
enterprise | 1
ra | 1
yamaha | 1
twinks | 1
sullivan | 1
planner | 1
emerald | 1
families | 1
quiet | 1
promptly | 1
much | 1
officer | 1
sites | 2
lf | 2
slow | 1
tomorrow | 1
panels | 1
texts | 1
flip | 1
filme | 1
graphics | 1
marion | 2
pharmaceuticals | 1
tap | 1
ri | 1
festival | 1
respectively | 2
gore | 1
surname | 1
extensive | 1
mathematics | 1

prefers | 1
rr | 1
merge | 2
nashville | 1
violation | 1
liquid | 1
medal | 1
shopzilla | 2
pizza | 1
franklin | 1
secondary | 1
halifax | 1
perform | 1
monte | 1
maximum | 1
password | 1
kerry | 1
inch | 1
rwanda | 2
tf | 2
ground | 3
helped | 1
hiking | 1
package | 1
kevin | 2
framed | 1
licenses | 1
vehicle | 1
turn | 2
fans | 1
isp | 1
jewish | 3
faces | 1
later | 1
sharing | 2
sm | 1
processing | 1
enable | 1
pediatric | 2
objective | 2
pas | 1
hearings | 1
quilt | 1
sorts | 1
na | 1
liability | 1
steven | 2
input | 1
guinea | 2

sticks | 1
rescue | 1
promote | 1
homepage | 1
linux | 1
targets | 1
shakira | 1
levels | 1
shop | 2
heather | 1
editions | 1
layers | 1
food | 1
peripheral | 1
sucks | 1
released | 3
mini | 1
fw | 1
ranks | 1
rural | 2
handjob | 1
unnecessary | 1
tag | 2
fur | 1
injured | 1
hockey | 1
novels | 1
trackback | 3
vinyl | 1
furthermore | 1
wr | 1
volkswagen | 1
signing | 2
initiative | 1
neither | 1
saturday | 1
list | 1
effective | 1
manchester | 1
halfcom | 2
polyphonic | 1
permissions | 2
rarely | 1
many | 2
rental | 1
sen | 3
teaches | 1
tokyo | 1
induction | 1

swift | 1
newbie | 2
joy | 1
garmin | 1
particles | 1
sql | 1
speak | 1
relation | 1
gage | 1
pop | 1
results | 3
usa | 2
oliver | 1
restrict | 3
exit | 1
hq | 1
gov | 1
supplied | 1
optics | 2
minutes | 1
retain | 2
oracle | 1
invalid | 1
intake | 1
rogers | 2
outreach | 1
objectives | 1
worked | 2
filing | 1
tickets | 1
miles | 1
wash | 1
teachers | 1
processors | 1
io | 1
trader | 2
niagara | 2
isa | 1
purpose | 2
replace | 3
tactics | 1
printable | 1
qatar | 1
rip | 1
surf | 2
investigations | 1
nevertheless | 1
pavilion | 2
essay | 1

periods | 1
force | 1
traveling | 2
powerseller | 1
forest | 1
thong | 1
liberal | 3
fonts | 1
privacy | 2
pub | 3
revolution | 3
sim | 2
expenditures | 1
painted | 2
identical | 2
oc | 1
predictions | 1
lite | 1
manner | 1
garlic | 2
fruits | 1
makeup | 3
recognized | 1
gbp | 2
high | 1
measurement | 1
resolutions | 1
substances | 1
lynn | 1
wrestling | 1
spreading | 2
proposition | 1
suzuki | 1
isle | 1
supports | 3
records | 2
toner | 4
module | 1
refinance | 2
outer | 2
holes | 1
miniature | 1
ever | 1
moments | 1
fitting | 1
receives | 3
entering | 1
lobby | 1
immediate | 1

vincent | 2
genealogy | 1
hosts | 1
severe | 1
online | 1
jeffrey | 1
mobiles | 1
nipple | 1
violations | 1
wallet | 1
sr | 1
styles | 1
res | 1
oak | 1
exceptional | 1
funky | 1
ins | 1
squirting | 1
newer | 2
own | 1
ring | 1
transportation | 1
finally | 1
likes | 1
open | 1
street | 1
involve | 1
oxide | 3
jack | 2
questions | 1
update | 1
finish | 1
shoppers | 2
exercises | 1
illustration | 1
genes | 1
spies | 1
nh | 1
wal | 2
harold | 1
opposite | 2
varied | 2
grid | 1
judges | 1
notifications | 1
meets | 1
pokemon | 1
excessive | 1
eur | 1

springfield | 1
suggested | 1
sublime | 1
hear | 1
ward | 2
passenger | 1
hotelscom | 2
symantec | 1
laughing | 1
transition | 2
uw | 1
percentage | 1
officers | 3
marie | 1
guild | 2
mins | 1
zealand | 1
toolkit | 1
yeast | 1
utils | 1
host | 1
todd | 2
girl | 2
fear | 1
ship | 1
exhibit | 1
qualify | 2
tires | 1
underground | 1
playing | 1
gentleman | 1
fetish | 1
server | 2
garage | 1
memphis | 1
intelligent | 1
institution | 2
lexus | 1
ncaa | 1
execute | 1
home | 1
toddler | 1
rolling | 1
george | 1
twist | 1
shelter | 1
millennium | 2
feedback | 1
famous | 1
muze | 2

steady | 2
favour | 1
respondents | 1
hygiene | 1
thanks | 2
spray | 3
sea | 1
fixtures | 1
per | 1
gray | 1
mx | 3
reject | 1
returned | 1
passing | 1
programmes | 1
qualified | 2
knights | 1
filters | 1
nepal | 1
transport | 1
worldwide | 1
goto | 1
kazakhstan | 1
leather | 1
summit | 1
visitors | 3
extent | 1
fork | 1
valuation | 1
losing | 1
telecharger | 1
lending | 1
opportunities | 1
lived | 1
pockets | 1
mailed | 1
fcc | 1
heavily | 2
inquire | 2
researcher | 1
tour | 2
wage | 1
shoe | 1
russian | 1
pale | 3
mounting | 2
mean | 1
russia | 1
sb | 2

humans | 1
ridge | 1
external | 1
optional | 1
lap | 1
parish | 2
ordering | 1
objects | 1
menu | 2
marriage | 2
remarkable | 2
mv | 1
remark | 2
square | 1
siemens | 3
far | 1
ty | 1
unknown | 1
trembl | 2
nomination | 1
glad | 1
frederick | 1
summary | 3
soldiers | 1
inspections | 1
oz | 1
productivity | 1
personnel | 3
helps | 1
sys | 1
newscom | 2
largest | 1
sl | 2
patient | 1
spending | 1
rico | 1
partnerships | 1
sd | 1
surrounding | 2
sex | 1
salmon | 1
substantial | 1
wx | 1
navigator | 2
lo | 2
msgid | 1
imposed | 1
he | 1
regional | 1

school | 1
hartford | 2
puts | 1
sheffield | 3
savannah | 2
supervisors | 1
negotiations | 1
magical | 1
screen | 1
sn | 1
mega | 1
sheet | 1
reserves | 1
point | 1
featured | 1
jackie | 2
theater | 1
ready | 1
transcripts | 1
ko | 1
lycos | 2
shown | 1
otherwise | 1
rank | 1
struggle | 2
stations | 1
neighbors | 1
trust | 1
rather | 1
surveillance | 1
intended | 2
markers | 1
techniques | 3
occupation | 1
reporters | 1
watershed | 1
present | 2
standings | 1
publicity | 1
vacation | 1
qualification | 2
vulnerable | 3
payment | 1
synthesis | 1
frequently | 2
howto | 1
unauthorized | 1
losses | 1
sparc | 2

hanging | 1
obtain | 1
yesterday | 2
these | 1
habitat | 1
workflow | 1
writings | 1
fundamental | 1
rfc | 1
therefore | 2
islands | 1
rest | 1
slovenia | 1
peeing | 1
highways | 1
susan | 1
their | 2
pipeline | 1
guatemala | 2
problems | 1
robinson | 1
tend | 1
prayers | 1
reflections | 1
survey | 1
tolerance | 1
hampshire | 1
shore | 2
insects | 1
pg | 1
removable | 1
polymer | 1
thereafter | 1
teach | 1
inline | 1
sigma | 1
responsible | 1
hide | 1
sodium | 1
paths | 1
timothy | 3
shares | 1
purchased | 1
spank | 1
ghz | 1
honors | 2
safety | 1
finger | 1
rape | 2

mattress | 1
wing | 1
turtle | 2
impact | 2
los | 1
variations | 1
marco | 1
night | 3
fiscal | 1
mustang | 1
wind | 1
protest | 1
proceed | 1
policy | 1
ticket | 2
mint | 1
terror | 1
trend | 1
printer | 1
generators | 1
hints | 1
jewel | 1
popular | 1
focused | 1
grab | 1
integrating | 1
obj | 1
gdp | 1
marketing | 1
wars | 1
religious | 1
live | 1
webpage | 1
honor | 1
sense | 2
rb | 1
november | 2
guest | 1
success | 1
valuable | 1
lookup | 1
jeans | 1
pe | 1
miami | 2
florida | 1
tail | 1
penguin | 1
slideshow | 1
only | 1

glossary | 1
perceived | 1
supplies | 1
netherlands | 3
ignore | 1
tamil | 1
jp | 2
peninsula | 1
nation | 1
pie | 2
keeps | 1
silence | 1
wisconsin | 1
mt | 1
hardcover | 1
slave | 2
gardening | 1
offensive | 1
third | 1
mayor | 1
pens | 1
tubes | 1
frankfurt | 1
roger | 1
totals | 2
lebanon | 1
no | 1
kenya | 1
oops | 1
raw | 1
sandra | 2
legends | 1
ks | 1
myers | 1
receivers | 1
malawi | 1
joint | 1
preferred | 1
style | 1
left | 1
handle | 1
off | 1
physics | 1
rose | 1
registration | 1
lists | 2
rays | 1
requests | 1
prior | 2

ibm | 1
method | 1
sealed | 1
tracked | 2
lambda | 1
sleeve | 1
violin | 1
housing | 1
ment | 1
potatoes | 1
traffic | 2
pill | 2
verizon | 1
personalized | 1
proper | 1
relates | 4
omaha | 1
up | 1
micro | 1
mph | 1
organizer | 1
surfaces | 1
senegal | 2
future | 1
primary | 1
mlb | 1
lolita | 2
remedy | 1
sensor | 1
holiday | 1
trial | 1
villas | 1
hayes | 1
madagascar | 1
reasonable | 3
hypothetical | 1
span | 1
weird | 1
holy | 1
several | 1
implementation | 1
launched | 1
prisoners | 1
government | 1
preceding | 1
reflected | 2
targeted | 1
saving | 1
parade | 2

narrow | 1
within | 2
struct | 1
share | 2
nicole | 1
howard | 1
german | 1
vi | 1
trackbacks | 1
tracker | 1
pasta | 1
half | 3
suspension | 1
hc | 1
refresh | 1
hung | 1
weather | 1
ratings | 1
passage | 1
physician | 1
nose | 1
surgeon | 1
global | 1
sell | 1
uni | 1
linking | 1
stuck | 1
nor | 1
output | 1
references | 1
michel | 1
nail | 1
shops | 1
spot | 1
inspiration | 2
presidential | 1
specs | 2
ribbon | 1
local | 1
restrictions | 1
way | 1
mice | 1
segment | 1
sexy | 1
greene | 1
puzzles | 1
nurse | 1
harassment | 1
listprice | 1

infections | 1
magnitude | 1
me | 1
guys | 1
pee | 1
marriott | 1
positive | 1
west | 1
spam | 1
nickel | 3
guru | 1
plastic | 1
lip | 1
won | 1
precision | 1
illustrated | 1
holder | 1
wikipedia | 1
n | 2
roller | 1
ima | 1
who | 1
juice | 1
masters | 3
proudly | 1
stupid | 1
import | 1
prepaid | 2
seeds | 1
hosting | 1
million | 1
teams | 1
searches | 1
reported | 2
spa | 2
mambo | 1
op | 1
methods | 1
sick | 1
hormone | 1
modifications | 1
operated | 1
transparent | 1
sing | 2
palm | 1
into | 2
threatening | 1
robert | 1
sisters | 1

sword | 1
southern | 1
litigation | 1
kit | 2
increase | 1
walk | 1
port | 1
hurt | 1
ours | 2
podcast | 1
largely | 1
occupied | 1
pleasant | 3
mauritius | 1
pack | 3
passes | 1
installation | 1
pod | 1
near | 1
yearly | 1
greg | 1
speech | 1
vii | 1
infectious | 1
lion | 1
visitor | 2
hot | 1
strong | 1
mn | 2
paying | 1
que | 2
perception | 1
performed | 1
ventures | 1
phpbb | 1
other | 2
movies | 2
merit | 1
tanks | 1
rc | 1
springer | 2
herbal | 1
philadelphia | 1
workers | 1
incorporated | 1
remarks | 1
preston | 1
screenshot | 1
parties | 2

spotlight | 1
silent | 1
roughly | 1
ordered | 2
u | 1
wooden | 1
shemales | 1
schedule | 1
j | 1
welcome | 1
indicates | 1
replacement | 2
TRUE | 1
law | 1
univ | 1
wonder | 1
whale | 1
sleeps | 1
harvey | 1
ls | 1
mix | 1
wet | 2
opinions | 1
worlds | 1
slim | 2
pose | 1
powered | 1
tie | 1
occurs | 1
handles | 1
net | 1
removing | 1
my | 1
very | 1
overseas | 1
joshua | 1
row | 1
instructional | 1
hammer | 1
marina | 1
mel | 1
root | 1
ownership | 1
ou | 1
lips | 1
secure | 1
religions | 1
pattern | 1
signals | 2
libraries | 1

literature | 1
income | 1
receive | 1
maps | 1
storage | 1
replacing | 1
refined | 1
recruitment | 1
meaning | 2
malaysia | 1
providence | 1
sophisticated | 1
nightlife | 1
involved | 1
mia | 2
twins | 2
luis | 2
via | 1
its | 1
washer | 1
transfer | 1
reached | 1
vendor | 1
min | 1
shade | 2
move | 1
max | 2
remained | 1
phd | 1
liechtenstein | 1
supplement | 1
ltd | 1
wan | 1
jordan | 2
statewide | 1
prison | 1
perfectly | 2
installations | 1
rail | 2
k | 2
interests | 1
varies | 1
trails | 1
medicaid | 2
hrs | 1
pressing | 1
zambia | 1
skip | 2
viewed | 1

interactions | 1
reserve | 1
videos | 1
smaller | 1
series | 1
vcr | 1
spin | 1
slide | 1
introduces | 2
save | 1
tutorial | 1
reveals | 1
naked | 1
poster | 1
postcard | 1
rachel | 1
licence | 1
movers | 1
idea | 1
lyric | 2
sic | 1
simplified | 1
scuba | 1
passed | 1
istanbul | 1
ion | 1
starter | 1
village | 1
romantic | 1
tp | 1
sensors | 1
latex | 1
rice | 1
personals | 1
make | 1
subaru | 1
unix | 1
positions | 1
william | 1
incorrect | 1
nov | 1
produced | 1
older | 1
step | 1
surfing | 1
por | 1
peripherals | 2
tales | 1
joining | 1

ink | 1
resources | 1
letting | 1
understanding | 1
jean | 1
parking | 1
nearest | 1
premises | 1
palestine | 1
strings | 1
occurred | 1
seek | 1
rings | 1
thesis | 1
peter | 2
uploaded | 2
ip | 1
neo | 1
wanted | 1
singapore | 1
ve | 2
report | 1
scanned | 1
observer | 1
tion | 1
july | 1
moss | 1
loose | 1
nude | 1
printing | 1
rt | 1
solo | 1
poland | 1
iron | 1
vacations | 3
kijiji | 1
wise | 1
philips | 1
indicating | 1
stack | 1
sunshine | 1
ieee | 1
internet | 1
reputation | 1
restaurants | 1
limousines | 1
nasa | 1
range | 1
kw | 1

safer | 1
race | 1
vote | 1
miller | 1
ron | 1
interact | 1
limit | 1
ps | 1
naturally | 1
lighting | 1
march | 1
lung | 1
yields | 1
railway | 1
pipes | 2
indonesian | 1
monica | 1
ripe | 1
tin | 2
man | 1
professional | 1
packard | 1
institutes | 1
psp | 1
priorities | 1
minister | 1
rising | 1
revealed | 1
techrepublic | 1
wider | 1
nutrition | 1
oe | 1
recorders | 1
meetup | 1
takes | 1
screenshots | 2
returns | 1
structured | 2
nature | 1
tuning | 1
snow | 1
sensitivity | 1
quantitative | 1
knee | 1
scout | 1
moses | 1
ottawa | 1
vienna | 1
powerful | 1

yang | 1
uv | 2
rna | 1
sharp | 1
representing | 1
weddings | 1
told | 1
proposal | 1
services | 1
lancaster | 1
rob | 1
taste | 1
palmer | 1
representation | 1
particle | 1
showcase | 1
ind | 1
reasons | 1
possess | 1
opposition | 1
mp | 1
winners | 1
load | 2
nfl | 1
requirement | 1
recognize | 1
nickname | 1
sequences | 1
resolve | 1
louis | 1
loops | 1
oklahoma | 1
specialists | 1
she | 1
temperatures | 1
memory | 1
washington | 1
pc | 1
wifi | 1
younger | 1
upcoming | 1
sailing | 1
ta | 1
volleyball | 1
norman | 1
nearby | 2
johnson | 1
reforms | 1
yukon | 1

memo | 1
pursuant | 1
spice | 1
record | 1
movements | 1
opposed | 1
retrieval | 1
nathan | 1
room | 1
parenting | 1
throughout | 1
surprising | 1
meanwhile | 1
johns | 1
suffering | 1
mad | 1
planning | 1
informal | 1
wait | 2
tapes | 2
locations | 1
telecommunications | 1
made | 1
situation | 2
miss | 2
o | 1
project | 1
ryan | 1
mario | 1
war | 1
volvo | 1
psychiatry | 1
valve | 1
tank | 2
pollution | 1
panasonic | 1
typically | 1
strange | 1
living | 1
peoples | 1
jumping | 1
joe | 1
tax | 1
pierce | 1
scenarios | 2
weekend | 1
specials | 2
ranging | 1
marble | 1

units | 1
province | 1
universe | 1
nextel | 1
webshots | 1
profiles | 1
savage | 1
routers | 1
wants | 1
x | 2
pussy | 1
plasma | 1
minds | 1
mill | 1
producers | 1
soma | 1
undertaken | 1
node | 1
shoulder | 1
start | 1
speeches | 2
mirrors | 1
velvet | 1
radius | 1
vietnamese | 1
nest | 1
so | 1
translation | 1
vast | 1
queens | 2
procedure | 1
past | 2
pantyhose | 1
ver | 1
sweet | 1
seven | 1
legend | 1
textiles | 1
vc | 1
spread | 2
substitute | 1
posted | 1
ruling | 1
stranger | 1
marketplace | 1
playboy | 1
pond | 1
virgin | 2
plains | 1

pix | 1
mar | 1
lakes | 1
legs | 2
rocks | 1
republican | 1
view | 2
vocal | 1
minor | 1
sk | 1
mc | 1
licensed | 1
screensavers | 1
salad | 1
preview | 1
salvation | 1
wma | 1
performances | 2
s | 1
nn | 1
separate | 1
pos | 1
subscriber | 1
sides | 1
prove | 1
mold | 1
ww | 1
seat | 1
malpractice | 1
meter | 1
shipment | 1
year | 1
vg | 1
voted | 1
rrp | 1
stars | 1
residence | 1
stamp | 1
monitor | 1
phi | 1
taxation | 1
now | 1
monkey | 1
tournament | 1
notified | 1
karma | 1
static | 2
monday | 1
location | 1

pointed | 1
tried | 1
jesse | 1
paypal | 1
season | 1
reviewed | 1
networking | 1
participate | 1
reid | 1
track | 1
sum | 2
special | 1
milan | 1
preparing | 1
statement | 1
tiles | 1
weighted | 1
movement | 1
rabbit | 1
kiss | 1
olympus | 1
nr | 1
pieces | 1
wrong | 1
shopper | 1
launches | 1
proposals | 1
tooth | 2
plymouth | 1
va | 1
satisfactory | 2
wt | 1
mae | 1
plots | 1
territories | 1
offerings | 1
talks | 1
semi | 1
welding | 1
supervision | 1
months | 1
televisions | 1
threatened | 1
kernel | 1
tba | 1
salt | 1
murphy | 1
latest | 1
part | 1

treaty | 1
relations | 1
tuner | 1
mechanics | 1
packages | 2
packets | 1
or | 1
ultra | 1
promoted | 1
oxygen | 1
yugoslavia | 1
solving | 1
womens | 1
toll | 1
treat | 1
tropical | 1
orgasm | 1
wall | 1
titles | 1
white | 1
remains | 1
vertex | 1
suites | 1
manor | 1
surgical | 1
mozilla | 1
replaced | 1
tennis | 1
suddenly | 1
shortcuts | 1
lucia | 1
occasions | 1
sexual | 1
refers | 1
mississippi | 1
state | 1
sarah | 2
lenses | 1
sig | 1
quoted | 1
words | 1
trash | 1
seq | 1
oriental | 1
veterinary | 1
scientific | 1
stadium | 1
stability | 1
specialty | 1

```
minneapolis | 1
msn | 1
reception | 1
recipe | 1
spectacular | 1
regulated | 1
richards | 1
moved | 1
minute | 1
peak | 1
mods | 1
philosophy | 1
lc | 1
throw | 1
lifestyle | 1
whats | 1
microsoft | 1
mail | 2
tom | 1
proc | 1
nano | 1
letters | 1
sri | 1
tests | 1
proceeds | 1
seo | 1
pounds | 1
suggesting | 1
texas | 1
postposted | 1
realty | 1
vaccine | 1
relocation | 1
Execution Time (seconds): 0.17366869800025597
```

Instalación de Pylint

```
pip install pylint
```

```
Requirement already satisfied: pylint in
/usr/local/lib/python3.12/dist-packages (4.0.4)
Requirement already satisfied: astroid<=4.1.dev0,>=4.0.2 in
/usr/local/lib/python3.12/dist-packages (from pylint) (4.0.3)
Requirement already satisfied: dill>=0.3.6 in
/usr/local/lib/python3.12/dist-packages (from pylint) (0.3.8)
Requirement already satisfied: isort!=5.13,<8,>=5 in
/usr/local/lib/python3.12/dist-packages (from pylint) (7.0.0)
Requirement already satisfied: mccabe<0.8,>=0.6 in
```

```
/usr/local/lib/python3.12/dist-packages (from pylint) (0.7.0)
Requirement already satisfied: platformdirs>=2.2 in
/usr/local/lib/python3.12/dist-packages (from pylint) (4.5.1)
Requirement already satisfied: tomlkit>=0.10.1 in
/usr/local/lib/python3.12/dist-packages (from pylint) (0.13.3)
```

#Análisis del Código

```
!pylint wordCount.py

***** Module wordCount
wordCount.py:1:0: C0114: Missing module docstring (missing-module-
docstring)
wordCount.py:1:0: C0103: Module name "wordCount" doesn't conform to
snake_case naming style (invalid-name)
wordCount.py:8:0: C0116: Missing function or method docstring
(missing-function-docstring)
wordCount.py:14:16: W0612: Unused variable 'line_number' (unused-
variable)
wordCount.py:38:0: C0116: Missing function or method docstring
(missing-function-docstring)
wordCount.py:51:0: C0116: Missing function or method docstring
(missing-function-docstring)
wordCount.py:58:0: C0116: Missing function or method docstring
(missing-function-docstring)

-----
Your code has been rated at 8.85/10 (previous run: 8.85/10, +0.00)
```

#Código Mejorado

```
%%writefile wordCount.py

#!/usr/bin/env python3
"""
wordCount.py

Este programa lee un archivo de texto proporcionado como argumento
en la línea de comandos, identifica las palabras distintas y determina
su frecuencia, y luego imprime los resultados en la pantalla y en un
archivo llamado WordCountResults.txt.

Todas las operaciones se realizan utilizando algoritmos básicos.
"""

import sys
import time
```

```

##### DEFICION DE FUNCION
#####
def read_words_from_file(file_path):
    """
    Abre un archivo de texto y extrae todas las palabras que contiene.

    La función lee el archivo línea por línea y separa las palabras
    basándose en los espacios que hay entre ellas.

    Parametros
    -----
    file_path (texto): nombre del archivo a leer.

    Regresa
    -----
    lista que contiene las palabras extraídas del archivo.
    """
    words = []                                # Lista, donde se guardarán las
    palabras
    # Abrimos el archivo
    try:
        with open(file_path, "r", encoding="utf-8") as file:
            for line in file:                  # Revisamos línea a
            línea
                line = line.strip()            # Quitamos espacios o
            saltos
                if not line:                    # Si la línea está
            vacia
                continue                        # pasamos a la
            siguiente

            # Separación manual de palabras
            current_word = ""                  # Variable
            temporal
            for char in line:                  # Revisión letra
            a letra
                if char != " ":                # Si no es un
            espacio
                    current_word += char        # lo pegamos
                else:
                    if current_word:            # Hay espacio,
            termino la
                        words.append(current_word) # palabra
                        current_word = ""         # limpiamos
                    if current_word:
                        words.append(current_word) # Guardamos

    # Gestionar el error
    # Si el archivo no existe o se escribe mal, enviamos un mensaje

```

```

except FileNotFoundError:
    print(f"Error: File '{file_path}' not found.")
    sys.exit(1) # Cerramos el programa

    return words          #Regresamos la lista con todas las palabras
encontradas
#####

#####

##### DEFINICION DE FUNCION
#####
def count_word_frequencies(words):
    """
    Cuenta las vces que aparece una palabra en una lista.

    Parámetros:
    -----
    palabras : lista
        Lista de palabras.

    Regresa
    -----
    diccionario
        Donde la palabra es una etiqueta y el número
        es cuantas veces se encontro.
    """
    # Diccionario vacio, aquí se colocan los resultados
    frequencies = {}

    # Revisamos cada palabra de la lista
    for word in words:
        if word in frequencies:
            frequencies[word] += 1    #Si existe le sumamos 1 al conteo
        else:
            frequencies[word] = 1     #Si es la primera vez que la
vemos                                #la anotamos y le ponemos 1 al
conteo
    return frequencies    #Regresa el conteo final
#####

##### DEFINICION DE FUNCION
#####

def write_results(results):

```

```

"""
Guarda los resultados del conteo en un
archivo llamado WordCountResults.txt.

Parametros
-----
resultados : lista de líneas de texto que deseamos escribir en el
archivo
"""
# Abre el archivo
with open("WordCountResults.txt", "w", encoding="utf-8") as file:
    for line in results:          # Escribimos el contenido de la
linea
        file.write(line + "\n")    # Salto de línea

#####

##### FUNCION PRINCIPAL
#####

# Definición de función principal, muestra el orden de ejecución
def main():
    """
    Punto de inicio del programa.
    1: Lectura de datos
    2: Conteo de palabras
    3: Impresión de resultados
    """
    start_time = time.perf_counter()    # Inicio del temporizador

    # Verifica que se ejecute el programa de forma correcta
    if len(sys.argv) != 2:
        print("Usage: python wordCount.py fileWithData.txt")
        sys.exit(1)

    file_path = sys.argv[1]             # Se obtiene la ruta del
archivo

    # Llamado a función
    words = read_words_from_file(file_path) # Extracción del
contenido del archivo

    # Si el archivo esta vacio, enviamos mensaje y salimos.
    if not words:
        print("Warning: No valid words found in the file.")
        sys.exit(1)

    # Llamado a función
    frequencies = count_word_frequencies(words) # Conteo de palabras

```

```

# Imresión de Resultados
output_lines = []                                     #Lista para guardar
resultados
# Encabezado del Reporte
output_lines.append(f"Etiqueta: {file_path}")
print(f"Etiqueta: {file_path}")
output_lines.append(f"Conteo del archivo: {file_path}")
print(f"Conteo del archivo: {file_path}")
# Espacio en blanco
output_lines.append("") # Add an empty line for better separation
print("") # Print empty line to console
# Nombre de las columnas
output_lines.append("Palabra | Frecuencia")
print("Palabra | Frecuencia")
# Línea separadora
output_lines.append("-" * 30)
print("-" * 30)

# Formateo de los resultados
for word, count in frequencies.items():
    line = f"{word} | {count}"
    print(line)
    output_lines.append(line)

# Suma de todos los conteos para conocer el total de palabras
total_words = sum(frequencies.values())
output_lines.append("-" * 30)
print("-" * 30)
total_words_line = f"Conteo Total de Palabras: {total_words}"
output_lines.append(total_words_line)
print(total_words_line)

# Finalización del temporizador y calculamos el tiempo de ejecución
end_time = time.perf_counter()
elapsed_time = end_time - start_time

output_lines.append("-" * 30)
time_line = f"Tiempo de Ejecución (segundos): {elapsed_time}"
output_lines.append(time_line)

print(time_line)
# Llamado a función
write_results(output_lines)    #Guardamos los resultados en el
archivo

if __name__ == "__main__":
    main()

```



```
#####  
#####
```

Overwriting wordCount.py

!python wordCount.py TC5.txt

Etiqueta: TC5.txt

Conteo del archivo: TC5.txt

Palabra | Frecuencia

loaded | 2
wilderness | 5
specify | 2
cole | 1
telecom | 1
earliest | 2
uniprotkb | 1
retailer | 3
acquired | 1
reasoning | 2
breathing | 1
ozone | 3
hz | 1
consequences | 1
volume | 2
isaac | 2
milwaukee | 1
agenda | 1
roulette | 2
ordinance | 1
challenging | 1
regions | 2
faq | 1
sunset | 2
advantage | 1
masturbating | 1
biographies | 1
wednesday | 1
picks | 2
silk | 1
gossip | 2
tournaments | 1
entrepreneurs | 2
adjust | 1
designation | 2
injury | 3
flash | 1
baptist | 1

looksmart | 1
mason | 1
reservation | 2
trustee | 1
affairs | 1
prints | 1
enclosure | 1
routes | 1
metro | 1
gps | 4
walnut | 1
bunny | 1
bubble | 1
moscow | 3
biggest | 1
forecasts | 1
bunch | 1
myspace | 2
cancellation | 1
gambling | 1
amsterdam | 1
md | 1
introduction | 2
feel | 1
nigeria | 1
appearing | 1
system | 2
applied | 1
supplements | 2
contractor | 1
developer | 1
station | 3
du | 1
pete | 2
ie | 1
expectations | 1
places | 1
canal | 1
compute | 1
americans | 1
stating | 1
patrick | 2
assignments | 2
lucy | 1
unions | 3
authors | 1
public | 1
consist | 1
wave | 1

headline | 1
oct | 2
anytime | 1
modem | 2
sharon | 3
master | 1
keeping | 4
racial | 1
balance | 1
wire | 1
testament | 1
photos | 2
assurance | 1
casa | 1
vertical | 1
specialist | 3
loads | 1
considerable | 1
counsel | 1
deer | 1
hilton | 3
programmers | 2
possibilities | 2
ugly | 2
presentation | 2
studies | 1
block | 1
recent | 1
favorites | 1
soonest | 2
right | 1
comp | 1
navy | 2
cookbook | 1
excellence | 3
lover | 2
quest | 1
wilson | 3
most | 1
asin | 1
potter | 1
motors | 1
disputes | 1
kurt | 3
bool | 2
pulling | 1
bonus | 1
samoa | 2
maker | 2

hacker | 1
allowed | 1
soldier | 1
plastics | 1
upset | 2
dock | 1
elegant | 1
fame | 1
intense | 1
hoped | 2
keith | 2
recognised | 2
over | 1
focusing | 1
landscape | 2
desperate | 1
attraction | 1
wp | 1
mariah | 1
warnings | 1
ia | 1
je | 2
evaluating | 1
screensaver | 2
served | 1
calgary | 2
sponsor | 2
aim | 1
thoroughly | 1
richmond | 1
federal | 2
which | 1
nutten | 1
gate | 2
river | 3
dangerous | 1
reseller | 3
argue | 1
busty | 1
theatre | 2
travelling | 4
predicted | 1
discovery | 1
broker | 1
sku | 1
turkish | 2
managed | 5
witnesses | 2
gaming | 2

tribune | 1
threats | 4
albums | 1
converted | 1
hospitality | 1
troy | 1
separately | 2
hoping | 2
therapist | 1
souls | 3
panic | 1
cigarette | 1
detailed | 2
neighborhood | 1
lone | 1
strict | 1
improved | 2
exemption | 1
afterwards | 1
writes | 1
patricia | 1
fwd | 2
revolutionary | 3
rehabilitation | 1
trusted | 1
subject | 1
di | 1
mitsubishi | 2
sponsors | 1
tackle | 1
ti | 1
visibility | 2
student | 2
universal | 3
described | 2
offset | 2
verzeichnis | 1
shut | 2
screens | 2
classification | 1
previews | 1
retail | 1
continental | 1
slight | 1
matched | 3
saw | 2
ref | 2
attach | 1
laundry | 3

warren | 2
rooms | 1
coleman | 2
meant | 3
de | 1
anybody | 1
female | 1
myself | 1
fortune | 1
lane | 3
exec | 1
lender | 1
triangle | 1
speaker | 1
inches | 2
insider | 1
reserved | 1
darwin | 1
mixture | 3
rights | 1
negotiation | 2
tee | 1
andy | 1
occasion | 2
yn | 1
confused | 1
differential | 1
doug | 1
anywhere | 1
like | 1
immediately | 1
arise | 1
schools | 5
nicaragua | 1
cover | 1
occurrence | 2
ar | 2
horse | 1
climb | 2
directories | 1
given | 2
burner | 1
original | 3
idol | 2
proceedings | 1
uganda | 2
ted | 1
competing | 1
game | 3

passion | 4
exclusively | 2
pda | 2
spirit | 2
translations | 2
council | 1
turns | 1
dead | 1
spell | 2
cost | 1
veterans | 1
themes | 2
singh | 1
gel | 1
upskirts | 2
conferences | 1
horn | 2
yo | 2
attendance | 1
normally | 1
helpful | 2
raymond | 1
tablets | 3
astrology | 1
closest | 1
steering | 2
carlos | 1
lights | 2
hours | 1
tasks | 1
resulting | 2
scroll | 2
touched | 1
cet | 1
pdas | 1
generous | 1
historic | 1
belle | 1
indigenous | 1
hh | 1
katie | 1
those | 1
focuses | 1
offshore | 1
neighbor | 1
loans | 1
cursor | 1
cr | 2
outsourcing | 2

anthropology | 1
mistakes | 1
introduce | 1
slot | 1
bouquet | 1
horizon | 2
replication | 1
bags | 1
del | 1
blvd | 1
reel | 2
sister | 1
invasion | 1
depending | 1
beings | 1
defend | 2
fresh | 1
push | 2
flight | 2
recommend | 2
iso | 1
scanners | 1
jonathan | 2
tourist | 1
entries | 3
pull | 1
thing | 2
filed | 3
router | 3
karen | 2
blind | 2
concentrations | 1
listings | 3
earnings | 1
v | 3
thickness | 1
measure | 1
midnight | 2
integrate | 1
victor | 1
bless | 2
pointing | 3
manufacturing | 3
sector | 2
arkansas | 1
regardless | 2
mounted | 1
blues | 1
ways | 1

blanket | 1
intel | 1
boxing | 2
locally | 3
broken | 1
liabilities | 1
antique | 1
freight | 1
valued | 2
world | 2
bw | 2
display | 1
witch | 2
ye | 1
rid | 1
separated | 1
remainder | 2
hay | 1
wm | 2
ave | 1
emperor | 1
harrison | 2
happened | 1
hazard | 2
excerpt | 2
brian | 1
integer | 1
smoking | 2
eventually | 1
church | 1
citizens | 1
frequent | 1
sv | 1
opens | 4
choir | 1
informational | 1
cooked | 1
fascinating | 2
inkjet | 2
tell | 2
was | 1
began | 1
horizontal | 2
harmful | 1
satellite | 1
rapidly | 1
michael | 1
basically | 1
propose | 3

textbooks | 2
helping | 2
raises | 1
stan | 2
sorted | 2
well | 1
exceptions | 1
products | 4
desire | 1
finished | 1
sf | 2
employment | 1
glenn | 1
dome | 1
teens | 1
expansion | 1
packs | 2
camcorder | 1
text | 2
charging | 1
define | 1
represent | 1
twice | 1
eau | 3
evening | 1
rider | 1
minolta | 1
cam | 1
leader | 1
salon | 2
catalog | 1
orbit | 2
coordinate | 1
erotic | 1
examining | 1
cedar | 2
venues | 1
solar | 1
saver | 2
killer | 2
electrical | 1
metabolism | 1
trail | 1
halo | 2
rides | 2
technical | 2
calibration | 1
fighter | 2
sheep | 2

sustainability | 2
lafayette | 1
owned | 3
bernard | 1
emirates | 2
blend | 1
lazy | 1
webcams | 4
saalem | 1
indexed | 2
sync | 3
treasurer | 2
terrorists | 1
eligible | 1
fold | 3
staffing | 2
degree | 1
commissioners | 1
buyer | 1
sometimes | 1
warcraft | 1
auckland | 1
married | 1
transexual | 2
larger | 1
mats | 2
tragedy | 2
sean | 1
earl | 2
residential | 1
jurisdiction | 1
fossil | 2
tumor | 1
obligations | 2
configuring | 1
relax | 1
presents | 2
walking | 2
play | 1
panties | 1
witness | 2
punishment | 1
bookmark | 1
flag | 2
drum | 1
disclosure | 1
key | 3
hats | 1
manitoba | 1
harmony | 1

reform | 1
chester | 1
reporter | 2
viral | 2
bob | 1
thailand | 2
cams | 2
reply | 2
reviews | 1
small | 1
registered | 2
penny | 1
phrase | 1
scan | 1
efforts | 1
closely | 2
donna | 1
send | 1
warrant | 1
demands | 1
train | 1
trinity | 1
flashing | 1
upskirt | 3
condo | 1
chrome | 2
fathers | 1
federation | 1
availability | 1
switch | 1
thick | 2
voting | 1
investigated | 1
gotta | 1
blood | 1
carb | 1
reproductive | 1
terrorist | 4
visiting | 1
oclc | 2
talent | 2
gently | 1
fishing | 1
boulevard | 1
pregnancy | 2
knowledgestorm | 1
published | 4
louise | 1
usda | 2

writer | 1
volunteers | 1
damages | 1
norfolk | 1
criterion | 1
trailer | 1
diff | 1
torture | 2
becomes | 1
participation | 1
submit | 2
thriller | 1
satisfaction | 1
brake | 1
continually | 1
schemes | 1
princeton | 2
chess | 1
muscle | 1
nudity | 1
dramatically | 1
packaging | 1
holmes | 1
topless | 2
boc | 1
topic | 1
chen | 1
cook | 1
geo | 2
inf | 3
barbados | 1
caps | 1
collectibles | 1
salvador | 1
pamela | 1
doe | 1
catalyst | 1
desirable | 2
marilyn | 1
respond | 2
ru | 2
facts | 1
pays | 3
feeding | 1
museum | 2
clearance | 1
investigator | 1
drove | 2
path | 1

vegas | 1
coupons | 1
happens | 2
let | 1
old | 1
leeds | 1
sport | 3
bluetooth | 1
petersburg | 4
genres | 1
resort | 1
line | 2
simulations | 1
getting | 2
fun | 1
portfolio | 2
eh | 1
performer | 1
bahamas | 1
fibre | 1
individual | 1
log | 2
cambodia | 1
nice | 2
modems | 1
justice | 2
starts | 2
maximize | 2
classroom | 1
directory | 1
italy | 3
timing | 1
domestic | 1
endless | 1
sells | 3
tariff | 3
bruce | 1
tutorials | 1
seller | 2
baskets | 1
bag | 1
manufactured | 4
knowledge | 2
framing | 1
newspapers | 2
influence | 1
charlotte | 1
specifically | 1
unusual | 3

shipped | 1
blink | 1
naples | 1
intellectual | 1
boobs | 2
voyeurweb | 1
thin | 1
sexuality | 1
language | 1
unique | 2
teddy | 1
barcelona | 1
clay | 1
painting | 2
latin | 1
webmaster | 3
sprint | 2
locks | 1
find | 1
dynamic | 1
located | 2
milfhunter | 2
cyber | 1
requiring | 2
nottingham | 1
termination | 1
bound | 1
stay | 1
ralph | 1
narrative | 1
outline | 2
principle | 1
luggage | 1
illinois | 1
kits | 1
seasonal | 1
informative | 1
oil | 2
imports | 1
privileges | 1
usr | 2
distant | 1
personal | 1
corrections | 1
entity | 1
hills | 1
proxy | 2
dog | 1
sega | 3

competitors | 1
variance | 2
coalition | 1
dictionary | 1
oasis | 1
servers | 2
parliamentary | 1
pig | 2
contained | 1
clearing | 1
resulted | 1
olympic | 1
trip | 1
fin | 1
mineral | 1
pan | 1
wizard | 1
wayne | 1
penn | 1
livecam | 1
mortgage | 2
stream | 2
software | 1
brochures | 1
treated | 2
patent | 2
jpg | 1
horrible | 1
skype | 2
thrown | 1
tent | 2
status | 1
houston | 2
coated | 2
nights | 1
copy | 1
kentucky | 2
spine | 1
contribute | 1
trading | 2
establishing | 2
combines | 1
lean | 1
terrace | 1
condition | 1
sierra | 1
manager | 1
holidays | 1
believes | 1

cox | 1
campus | 1
section | 1
web | 3
glory | 2
birthday | 1
eos | 1
wherever | 1
nursing | 2
ja | 1
pink | 2
technological | 2
despite | 2
think | 2
distributor | 1
dr | 1
ce | 1
homes | 1
stop | 2
suggestions | 4
sustainable | 1
cologne | 1
finishing | 2
gtk | 3
greater | 1
numeric | 2
keywords | 1
craps | 1
rec | 3
skirts | 2
mileage | 1
circle | 1
wiki | 1
hill | 2
practitioners | 1
essence | 2
thumb | 1
estimation | 1
walls | 1
collective | 1
shaft | 1
rn | 2
sacrifice | 2
pic | 2
nicholas | 2
polished | 1
publicly | 3
ipod | 1
experiences | 1

whore | 1
dies | 2
lawrence | 1
ooo | 1
wages | 1
iraqi | 1
genuine | 1
correspondence | 1
reno | 1
bringing | 1
euro | 3
weblog | 3
rp | 1
signature | 3
er | 2
digit | 1
episode | 1
rod | 1
putting | 2
pad | 2
close | 1
rio | 2
oriented | 1
belly | 1
curriculum | 1
timeline | 1
oval | 1
self | 3
futures | 1
triple | 2
processed | 1
lauren | 1
mother | 1
pf | 1
slut | 1
tampa | 3
firmware | 1
type | 1
pets | 5
substantially | 1
subdivision | 2
gold | 2
physiology | 2
broadcasting | 1
inns | 1
ruby | 1
consequence | 1
bits | 1
martial | 3

lows | 2
nationally | 2
manhattan | 1
instrumentation | 1
hometown | 1
hey | 1
zen | 1
noble | 1
edmonton | 2
multiple | 1
decrease | 1
http | 2
organic | 2
portland | 1
margaret | 4
safe | 1
latino | 1
remember | 3
uri | 1
lowest | 2
grown | 2
terrible | 1
um | 3
golf | 2
mandatory | 1
soon | 1
space | 2
hour | 1
spent | 1
tray | 1
mart | 1
tools | 1
explain | 4
milton | 1
sets | 2
episodes | 1
intl | 2
uncertainty | 1
spaces | 1
toxic | 1
jump | 3
crack | 1
nsw | 1
two | 3
erotica | 1
platform | 1
enb | 2
practice | 1
brave | 1

restructuring | 1
improvement | 2
efficient | 1
players | 1
pam | 2
ebook | 2
distance | 2
notes | 2
merchandise | 2
transmit | 1
trademarks | 2
reflect | 1
closure | 1
show | 1
prediction | 2
rugby | 1
peers | 1
knives | 1
briefs | 1
middle | 1
recreational | 1
proprietary | 1
cleaning | 1
mw | 1
debian | 1
veteran | 2
notebooks | 1
bottle | 1
recommends | 4
qty | 1
ftp | 1
wallpapers | 1
photographer | 1
flexible | 1
tr | 3
shortly | 1
failure | 1
clause | 1
hero | 2
kind | 2
yrs | 3
ukraine | 3
depression | 1
evolution | 1
erik | 1
characterization | 1
indians | 1
refine | 1
metadata | 1

cartoons | 1
emails | 1
ict | 2
pulse | 2
specifies | 1
packed | 2
hiring | 1
exploration | 1
installed | 2
composite | 1
customers | 1
gale | 1
expo | 1
rpm | 2
secretary | 3
ranking | 1
demographic | 1
linked | 2
elect | 2
riding | 2
yourself | 1
cloudy | 1
cb | 2
views | 2
multimedia | 1
quick | 2
latvia | 1
incidence | 1
prague | 2
harper | 1
fixes | 1
shopping | 2
european | 1
utilize | 1
events | 1
resistant | 1
diy | 1
breakfast | 1
priest | 1
revised | 1
dear | 1
locked | 1
marathon | 2
join | 3
tyler | 3
pricing | 2
predict | 1
revenge | 1
carter | 1

handmade | 2
elvis | 1
this | 2
duration | 1
wrote | 2
ericsson | 1
sustained | 1
holdem | 1
includes | 1
invoice | 2
tower | 1
lesbians | 1
jar | 2
grenada | 1
precious | 2
previous | 1
opening | 1
deaths | 1
irish | 1
late | 3
normal | 1
pitch | 2
worldcat | 4
surface | 1
face | 1
willing | 2
happy | 2
publish | 1
engineering | 2
powder | 1
develop | 1
producing | 2
execution | 1
duck | 1
figure | 1
watches | 2
departmental | 1
junction | 1
integrity | 1
gang | 1
task | 1
webster | 1
exception | 1
quantum | 1
pregnant | 3
semiconductor | 2
suspended | 1
girlfriend | 1
shots | 1
chapter | 1

embedded | 1
theaters | 2
usually | 1
portuguese | 1
changed | 1
stewart | 1
softball | 1
sound | 1
flower | 1
mixed | 1
extraordinary | 1
medicare | 2
construction | 1
harm | 2
vessels | 1
main | 2
corps | 1
doctors | 1
exploring | 2
found | 2
robot | 2
conservative | 1
leonard | 3
te | 3
strengths | 1
literary | 3
murder | 2
sitemap | 2
sufficient | 2
persian | 2
ratios | 1
cow | 1
pac | 1
ss | 1
issn | 2
identified | 1
rim | 2
inc | 1
govt | 1
corpus | 3
da | 1
coating | 1
hundreds | 1
dx | 1
indexes | 1
recommendations | 1
christian | 1
textile | 1
opponent | 1

length | 2
participant | 1
promised | 1
optimum | 1
mines | 3
egypt | 1
unlock | 2
lp | 1
chronicle | 1
portrait | 2
monster | 1
prozac | 2
usps | 1
pharmacology | 2
pirates | 1
motels | 1
guided | 3
florists | 1
laden | 1
ui | 3
hamilton | 1
pakistan | 1
impression | 1
superintendent | 1
cambridge | 1
inclusion | 3
urge | 1
recorded | 3
tony | 1
herald | 1
ten | 1
formats | 2
database | 2
desired | 1
green | 1
hentai | 2
palestinian | 1
proceeding | 2
roland | 1
cigarettes | 1
mens | 1
junk | 1
fragrance | 2
suit | 1
cv | 1
xhtml | 1
lou | 1
wrap | 4
mobility | 1

sonic | 2
headset | 2
rational | 1
engaged | 1
patrol | 2
employers | 4
fri | 1
knight | 2
void | 1
disks | 1
compliance | 1
rehab | 1
james | 1
med | 1
happening | 1
nightmare | 2
eagle | 2
jewellery | 1
diabetes | 2
museums | 1
eric | 1
liverpool | 1
sentence | 1
rhythm | 2
charter | 1
levitra | 1
exhibitions | 1
nokia | 3
carnival | 1
column | 1
validity | 3
payable | 2
meyer | 2
rolled | 1
seeks | 3
operating | 2
modes | 1
librarian | 2
decimal | 1
drinks | 3
munich | 3
runtime | 2
capitol | 1
hampton | 1
streams | 2
response | 1
provider | 2
clubs | 1
farm | 1

seems | 2
untitled | 1
mainly | 1
poll | 1
thu | 1
estimates | 1
chambers | 1
surrounded | 2
promise | 1
user | 3
flickr | 1
israel | 1
habits | 3
dicks | 1
laptops | 1
sam | 1
coat | 1
tree | 2
scotland | 2
jpeg | 1
livestock | 1
seattle | 2
gay | 1
prominent | 1
ordinary | 2
difference | 1
instant | 1
yr | 2
packing | 2
you | 1
std | 1
rich | 2
dresses | 1
newfoundland | 3
grants | 1
speakers | 2
wells | 1
sapphire | 2
ez | 1
site | 1
useful | 4
travelers | 1
snap | 2
richard | 1
nhs | 1
created | 1
shine | 3
supposed | 1
occupations | 3

hispanic | 1
hollow | 2
selecting | 1
dev | 1
trap | 3
swap | 1
message | 3
setup | 1
using | 1
enhancements | 1
mpeg | 1
photograph | 2
chose | 1
meals | 2
conclusions | 1
tattoo | 1
pci | 3
intent | 2
founded | 3
obviously | 1
from | 2
gather | 2
regime | 1
richardson | 2
cave | 1
fifth | 2
www | 3
radio | 1
sanyo | 1
surge | 1
there | 1
chaos | 1
ceremony | 1
sphere | 1
pictures | 2
jones | 1
valium | 2
size | 2
floral | 1
get | 1
factors | 1
fatal | 2
risks | 3
coordination | 1
picking | 2
reveal | 1
hook | 1
token | 2
ferry | 1

officially | 1
confirmed | 1
hydrocodone | 1
customise | 1
hair | 1
satisfied | 3
worcester | 1
occasional | 1
readings | 2
leon | 3
week | 1
exchange | 1
payday | 1
double | 2
collectors | 1
press | 2
crawford | 1
dude | 3
labs | 1
introductory | 1
firms | 2
trace | 1
continuous | 1
stated | 1
requires | 3
monroe | 2
logged | 2
sudan | 1
piece | 2
forgotten | 2
francisco | 1
rebates | 3
leслиe | 1
flashers | 1
police | 2
nb | 4
route | 1
sign | 1
vid | 1
town | 1
molecules | 1
victory | 1
moon | 2
dm | 1
previously | 1
thee | 1
sink | 2
vibrator | 2
performing | 1

cms | 1
technique | 1
improve | 1
naval | 2
reliable | 1
refuse | 1
independence | 1
owner | 1
emily | 1
consolidation | 1
clinic | 1
runner | 1
longitude | 1
postings | 1
fist | 1
fees | 1
labour | 1
rg | 1
employer | 2
ultimately | 2
highway | 1
samsung | 2
worth | 1
shakespeare | 2
essential | 1
colonial | 1
meet | 1
plates | 1
widely | 2
hl | 3
expressions | 1
strip | 3
circles | 1
submission | 1
expanding | 2
neck | 1
compatibility | 1
threshold | 2
colored | 2
transcription | 2
seed | 2
plan | 1
xerox | 1
indices | 1
regularly | 1
cuisine | 1
newport | 1
orientation | 2
nearly | 2

legitimate | 2
keno | 2
senator | 1
summer | 3
savings | 1
though | 1
fifty | 1
remote | 2
rangers | 1
projected | 1
question | 1
ka | 1
sap | 1
concerning | 1
eugene | 1
trim | 1
civilization | 1
switches | 2
testing | 1
defendant | 1
fully | 2
pontiac | 1
whereas | 2
portraits | 2
dave | 1
last | 1
kids | 1
projector | 2
subjct | 1
rica | 3
ships | 1
representatives | 3
explicit | 3
infected | 1
jm | 1
enter | 1
lbs | 2
peace | 1
please | 1
plc | 2
sail | 1
computed | 1
considering | 1
fancy | 2
grill | 1
definitions | 1
photographic | 1
permanent | 2
low | 1

sunrise | 2
legal | 2
towns | 2
clips | 1
singer | 1
colorado | 1
imagination | 1
respondent | 1
conceptual | 1
ni | 2
mongolia | 2
constant | 1
soc | 1
enlargement | 1
subjects | 3
diane | 1
forums | 2
shot | 1
legendary | 2
throwing | 3
showers | 2
depend | 1
resolved | 2
need | 1
keep | 3
dist | 2
repeat | 1
selective | 1
practical | 1
helicopter | 1
detective | 1
reward | 1
sep | 1
library | 1
speeds | 1
newest | 1
focus | 1
instrument | 1
photo | 2
towards | 2
resolution | 2
lined | 1
traveler | 2
portions | 1
contrast | 1
construct | 1
crap | 1
publication | 1
completed | 1

deluxe | 1
england | 2
switzerland | 2
killing | 1
navigate | 2
terminal | 2
knit | 2
roots | 1
fred | 2
index | 1
grocery | 2
scott | 1
tries | 1
continuously | 1
twenty | 2
com | 1
pole | 1
derby | 1
unlikely | 1
reliability | 1
signed | 1
hybrid | 1
frank | 2
kingston | 2
reproduce | 1
ecological | 2
treasures | 1
prophet | 1
source | 2
powerpoint | 2
criticism | 1
pgp | 2
populations | 1
harris | 3
yeah | 1
want | 2
zdnet | 2
ser | 1
include | 1
fixed | 1
distinction | 1
gazette | 2
order | 2
commented | 1
overview | 3
jeep | 1
farmers | 1
why | 3
mortgages | 1

reverse | 2
facial | 1
environmental | 1
prompt | 1
marks | 1
scene | 1
urban | 2
repairs | 1
wordpress | 2
ht | 1
emotions | 1
partially | 2
subscribe | 2
respected | 3
russell | 1
matter | 3
prix | 1
dp | 1
totally | 1
emphasis | 2
grace | 1
len | 2
font | 1
deborah | 1
required | 2
mandate | 2
kill | 1
directive | 1
help | 1
represented | 3
politicians | 1
dec | 1
total | 1
cope | 1
lie | 1
detroit | 1
layout | 2
poetry | 1
restricted | 1
suse | 1
supported | 1
serbia | 3
maintains | 1
jamie | 1
thumbnail | 1
van | 2
vocabulary | 1
norm | 1
drops | 2
warranties | 3

whilst | 1
dosage | 1
creation | 1
fiji | 1
dynamics | 1
denver | 1
editorials | 1
fit | 1
making | 1
pdt | 1
greece | 2
dirty | 1
radiation | 1
ny | 1
thousand | 1
leading | 1
discs | 1
mainstream | 1
hose | 1
paste | 1
fa | 1
sexo | 2
cooperative | 1
cubic | 1
strength | 1
june | 2
nurses | 2
tuesday | 1
means | 1
fly | 2
relaxation | 1
inflation | 1
harry | 1
multi | 1
negative | 1
former | 1
finder | 1
usage | 3
temperature | 1
taxi | 2
disney | 1
lauderdale | 1
sept | 1
opt | 2
dominican | 1
config | 1
say | 1
forget | 1
taiwan | 1

seem | 1
henderson | 1
trout | 1
sales | 2
vibrators | 1
molecular | 1
graph | 2
critics | 1
family | 1
suburban | 1
dozens | 2
ice | 1
testimonials | 2
ph | 2
watts | 1
rv | 1
deliver | 1
drunk | 1
musicians | 1
yea | 1
seas | 1
increasing | 2
news | 1
handled | 2
joyce | 1
til | 1
fight | 1
mike | 1
connecticut | 1
gary | 1
wed | 1
executive | 1
wang | 1
strategies | 1
soa | 1
prince | 2
shield | 1
databases | 1
pocket | 2
madrid | 1
purchase | 2
television | 1
noise | 1
escorts | 1
upload | 1
mixer | 2
wichita | 1
infant | 1
few | 1

postage | 1
guy | 1
prescription | 1
stopping | 2
propecia | 1
stephen | 1
intersection | 1
guitar | 1
sorry | 1
mentioned | 2
random | 1
leasing | 2
invention | 2
worthy | 1
named | 1
olive | 2
reset | 1
resident | 1
physicians | 1
secretariat | 1
sounds | 2
tub | 1
laura | 1
requirements | 1
davis | 1
price | 1
such | 1
result | 1
fantastic | 1
silicon | 1
indianapolis | 1
keyboards | 2
settings | 2
visit | 1
fix | 1
nuclear | 2
mazda | 1
rain | 2
lessons | 1
toolbox | 1
qualities | 4
favorite | 2
theories | 1
margin | 2
organized | 1
proof | 1
pct | 1
toshiba | 2
haiti | 1

transfers | 1
sources | 1
hop | 1
fort | 2
penetration | 2
farms | 1
convenience | 1
instructor | 1
jane | 2
der | 1
dakota | 1
contents | 1
hottest | 1
metropolitan | 1
livesex | 2
serves | 1
ties | 2
premier | 1
tribal | 2
settlement | 1
grip | 1
hope | 1
l | 1
partners | 1
quarters | 2
wow | 1
jury | 1
reaction | 1
soup | 2
whole | 2
shadow | 1
macro | 1
hold | 2
tables | 3
consultant | 1
mary | 1
limited | 1
not | 2
shed | 1
divorce | 1
resistance | 2
signs | 1
looking | 1
kick | 1
treasure | 2
lithuania | 1
vitamin | 2
moderate | 1
refurbished | 2

factory | 1
liz | 1
hands | 1
sewing | 1
nam | 1
duke | 1
countries | 1
stainless | 1
shaved | 1
ongoing | 1
findlaw | 1
twisted | 2
network | 2
finances | 1
members | 1
vitamins | 1
moral | 2
dem | 1
subcommittee | 1
wanting | 1
reason | 1
preference | 1
scotia | 1
tall | 2
gm | 1
pp | 2
nerve | 1
sur | 1
following | 1
hawk | 1
mali | 1
inventory | 2
dealt | 1
remove | 1
ne | 1
tech | 2
encounter | 1
valentine | 1
pound | 1
guardian | 1
priced | 3
event | 2
mounts | 2
staying | 2
next | 1
doctor | 1
sao | 1
drivers | 1
reunion | 1

grey | 1
ira | 1
debate | 1
hopefully | 1
tip | 2
outdoor | 1
retreat | 1
expired | 1
incoming | 1
yen | 1
parks | 2
fabrics | 1
mug | 1
eddie | 1
hall | 1
wound | 1
sexually | 2
renaissance | 2
islam | 1
product | 2
forty | 1
iraq | 3
spy | 1
rj | 1
generally | 1
preventing | 1
faster | 1
terms | 1
openings | 1
hollywood | 1
wu | 1
instance | 1
spec | 3
thinkpad | 2
ep | 2
sentences | 4
improving | 1
goals | 1
lens | 1
pressure | 1
imagine | 1
warriors | 1
invasion | 2
heated | 1
queries | 1
desktops | 1
dns | 1
symposium | 3
involvement | 1

powell | 1
races | 1
toy | 3
said | 1
shipping | 1
elizabeth | 1
suite | 1
patents | 2
polls | 1
prerequisite | 1
readily | 1
cosmetic | 1
quantities | 1
elected | 1
sat | 1
markets | 1
free | 1
spirits | 3
rebecca | 1
migration | 3
tranny | 2
girls | 1
mtv | 1
mo | 1
operator | 1
mild | 1
searchcom | 1
workshop | 2
liberty | 1
quarterly | 1
likelihood | 1
lisa | 1
manuals | 1
dept | 1
organizations | 3
simon | 1
tabs | 2
gain | 1
principal | 1
lg | 3
roll | 1
signal | 1
ing | 1
tribute | 2
roster | 1
ln | 1
marvel | 1
victims | 2
forever | 1

install | 1
shooting | 2
est | 1
tested | 1
julia | 2
trio | 2
jets | 1
lovers | 2
downtown | 3
ext | 1
related | 1
trucks | 1
obesity | 1
institute | 2
displaying | 1
everywhere | 2
symphony | 1
nirvana | 1
postal | 1
principles | 1
formatting | 1
pet | 1
funded | 1
missile | 2
talented | 1
suppliers | 1
dans | 1
drill | 2
majority | 1
outputs | 1
gifts | 1
microphone | 2
evans | 2
organize | 1
vehicles | 1
plaza | 1
institutions | 2
loop | 2
letter | 1
disposal | 1
we | 1
draw | 1
hd | 1
operation | 1
examinations | 1
viewers | 1
incident | 2
pl | 1
winds | 1

oral | 2
fares | 1
lime | 1
evaluations | 2
royal | 1
violence | 1
stomach | 1
touring | 1
wagner | 1
latinas | 2
un | 1
protected | 1
hotmail | 2
southampton | 1
sie | 1
medicines | 2
then | 2
hawaiian | 1
intro | 1
gravity | 1
kg | 5
lm | 1
door | 1
recreation | 3
exclusion | 2
yemen | 1
retrieved | 1
robin | 2
gordon | 1
split | 2
motorcycle | 1
straight | 2
guitars | 2
grove | 1
tex | 1
tobago | 2
sofa | 1
thirty | 3
donate | 1
painful | 1
kay | 3
pages | 2
recipients | 1
marked | 1
ministry | 2
el | 2
fast | 1
gross | 1
luther | 1

efficiency | 2
petite | 1
inexpensive | 1
perfume | 1
tension | 2
resorts | 2
work | 1
updated | 1
rating | 2
screening | 2
teenage | 1
minimize | 2
worry | 1
xml | 2
possibly | 2
milk | 1
marking | 2
similarly | 1
sudden | 2
paid | 2
her | 1
editors | 1
deleted | 1
side | 2
fence | 1
finnish | 2
delicious | 1
pillow | 1
unavailable | 1
unfortunately | 2
elements | 1
mechanical | 1
showed | 1
pts | 1
sh | 1
def | 1
statistics | 3
eternal | 1
frontier | 1
seasons | 4
weblogs | 2
playlist | 2
pace | 1
studying | 1
details | 1
forward | 2
nt | 3
disposition | 1
fiction | 2

lounge | 2
loud | 4
lincoln | 1
father | 1
porsche | 2
spears | 2
expenses | 1
identify | 1
problem | 1
people | 1
tvs | 1
lives | 1
yield | 2
enabled | 1
pair | 2
permission | 2
economy | 1
kelly | 1
stickers | 1
moving | 2
doom | 1
invite | 1
shoppingcom | 2
transexuales | 2
heating | 2
sunglasses | 1
isbn | 1
provinces | 1
snowboard | 1
standing | 3
university | 1
pathology | 1
waterproof | 2
lamp | 1
infection | 1
parent | 1
through | 1
hat | 2
samples | 2
storm | 2
squad | 1
mod | 1
gourmet | 1
mission | 2
likely | 2
flu | 1
projects | 1
operate | 1
wallace | 1
have | 1

pubmed | 1
operates | 2
foundation | 1
forests | 1
vatican | 1
outcome | 1
house | 1
incentives | 1
monthly | 1
throws | 1
ons | 1
literacy | 1
physical | 2
prime | 2
outlet | 1
platforms | 1
tim | 1
mature | 3
routine | 1
pros | 1
hist | 1
reporting | 1
nikon | 1
son | 3
weapon | 2
hyundai | 1
subsequent | 1
maternity | 2
fisher | 1
reviewing | 2
rows | 2
produce | 1
six | 2
serum | 1
permalink | 1
instruments | 2
samba | 1
rx | 3
omissions | 1
looks | 1
grammar | 1
precise | 1
html | 1
roles | 1
soviet | 1
venezuela | 1
forecast | 1
management | 1
np | 1

ought | 2
technician | 1
recovered | 1
marcus | 1
vids | 1
toronto | 1
educational | 1
uzbekistan | 2
participating | 1
dollars | 1
manufacturers | 1
running | 1
sand | 2
offense | 1
shorts | 2
grade | 1
ontario | 1
iii | 1
sa | 1
encourages | 1
someone | 1
pixels | 2
thumbzilla | 1
stuff | 1
plugin | 1
providers | 2
faqs | 1
rage | 1
legislature | 1
legislation | 1
hazards | 2
streets | 1
disciplines | 1
ourselves | 1
modeling | 1
journalism | 1
fd | 1
doing | 1
rat | 1
furnished | 1
pope | 1
misc | 1
pot | 2
science | 1
history | 1
southwest | 2
rendered | 2
housewares | 1
protect | 1

edt | 1
parts | 1
networks | 1
goes | 1
lloyd | 1
gospel | 1
mexican | 1
instead | 1
rear | 1
moves | 1
structural | 2
finals | 1
grad | 1
pharmaceutical | 2
do | 1
nodes | 1
guaranteed | 1
stripes | 1
yarn | 3
kills | 2
suggest | 1
tablet | 3
moore | 1
ea | 2
earned | 1
encouraging | 1
plants | 3
rubber | 1
hierarchy | 1
ec | 1
safely | 1
pushed | 2
nj | 2
foundations | 1
planners | 2
india | 1
fy | 1
native | 1
ensure | 1
helena | 1
locale | 1
maria | 1
montana | 1
medication | 1
ol | 2
hydrogen | 1
dna | 1
tract | 1
extends | 1

skills | 1
josh | 1
logistics | 1
duties | 1
une | 2
troops | 1
instructions | 2
telescope | 1
pins | 1
ireland | 1
regression | 1
stud | 1
lance | 1
tale | 1
investigation | 1
song | 1
domains | 1
lower | 1
threesome | 1
economies | 1
pipe | 1
measured | 1
election | 1
jewelry | 2
hotels | 2
inclusive | 1
vegetables | 1
hopes | 2
rap | 1
infinite | 1
prefix | 1
rl | 1
rw | 1
thehun | 1
stevens | 1
protective | 1
sale | 1
equity | 1
judgment | 1
travel | 1
monetary | 2
recipes | 1
offering | 1
newark | 1
heart | 1
holds | 2
mall | 1
singing | 1
monitoring | 2

query | 1
submitted | 2
mention | 2
gregory | 1
including | 1
promotions | 1
outcomes | 1
ears | 1
industry | 1
expansys | 1
on | 1
rel | 1
longer | 1
inn | 1
reflection | 1
poker | 3
enterprise | 1
ra | 1
yamaha | 1
twinks | 1
sullivan | 1
planner | 1
emerald | 1
families | 1
quiet | 1
promptly | 1
much | 1
officer | 1
sites | 2
lf | 2
slow | 1
tomorrow | 1
panels | 1
texts | 1
flip | 1
filme | 1
graphics | 1
marion | 2
pharmaceuticals | 1
tap | 1
ri | 1
festival | 1
respectively | 2
gore | 1
surname | 1
extensive | 1
mathematics | 1
prefers | 1
rr | 1

merge | 2
nashville | 1
violation | 1
liquid | 1
medal | 1
shopzilla | 2
pizza | 1
franklin | 1
secondary | 1
halifax | 1
perform | 1
monte | 1
maximum | 1
password | 1
kerry | 1
inch | 1
rwanda | 2
tf | 2
ground | 3
helped | 1
hiking | 1
package | 1
kevin | 2
framed | 1
licenses | 1
vehicle | 1
turn | 2
fans | 1
isp | 1
jewish | 3
faces | 1
later | 1
sharing | 2
sm | 1
processing | 1
enable | 1
pediatric | 2
objective | 2
pas | 1
hearings | 1
quilt | 1
sorts | 1
na | 1
liability | 1
steven | 2
input | 1
guinea | 2
sticks | 1
rescue | 1

promote | 1
homepage | 1
linux | 1
targets | 1
shakira | 1
levels | 1
shop | 2
heather | 1
editions | 1
layers | 1
food | 1
peripheral | 1
sucks | 1
released | 3
mini | 1
fw | 1
ranks | 1
rural | 2
handjob | 1
unnecessary | 1
tag | 2
fur | 1
injured | 1
hockey | 1
novels | 1
trackback | 3
vinyl | 1
furthermore | 1
wr | 1
volkswagen | 1
signing | 2
initiative | 1
neither | 1
saturday | 1
list | 1
effective | 1
manchester | 1
halfcom | 2
polyphonic | 1
permissions | 2
rarely | 1
many | 2
rental | 1
sen | 3
teaches | 1
tokyo | 1
induction | 1
swift | 1
newbie | 2

joy | 1
garmin | 1
particles | 1
sql | 1
speak | 1
relation | 1
gage | 1
pop | 1
results | 3
usa | 2
oliver | 1
restrict | 3
exit | 1
hq | 1
gov | 1
supplied | 1
optics | 2
minutes | 1
retain | 2
oracle | 1
invalid | 1
intake | 1
rogers | 2
outreach | 1
objectives | 1
worked | 2
filing | 1
tickets | 1
miles | 1
wash | 1
teachers | 1
processors | 1
io | 1
trader | 2
niagara | 2
isa | 1
purpose | 2
replace | 3
tactics | 1
printable | 1
qatar | 1
rip | 1
surf | 2
investigations | 1
nevertheless | 1
pavilion | 2
essay | 1
periods | 1
force | 1

traveling | 2
powerseller | 1
forest | 1
thong | 1
liberal | 3
fonts | 1
privacy | 2
pub | 3
revolution | 3
sim | 2
expenditures | 1
painted | 2
identical | 2
oc | 1
predictions | 1
lite | 1
manner | 1
garlic | 2
fruits | 1
makeup | 3
recognized | 1
gbp | 2
high | 1
measurement | 1
resolutions | 1
substances | 1
lynn | 1
wrestling | 1
spreading | 2
proposition | 1
suzuki | 1
isle | 1
supports | 3
records | 2
toner | 4
module | 1
refinance | 2
outer | 2
holes | 1
miniature | 1
ever | 1
moments | 1
fitting | 1
receives | 3
entering | 1
lobby | 1
immediate | 1
vincent | 2
genealogy | 1

hosts | 1
severe | 1
online | 1
jeffrey | 1
mobiles | 1
nipple | 1
violations | 1
wallet | 1
sr | 1
styles | 1
res | 1
oak | 1
exceptional | 1
funky | 1
ins | 1
squirting | 1
newer | 2
own | 1
ring | 1
transportation | 1
finally | 1
likes | 1
open | 1
street | 1
involve | 1
oxide | 3
jack | 2
questions | 1
update | 1
finish | 1
shoppers | 2
exercises | 1
illustration | 1
genes | 1
spies | 1
nh | 1
wal | 2
harold | 1
opposite | 2
varied | 2
grid | 1
judges | 1
notifications | 1
meets | 1
pokemon | 1
excessive | 1
eur | 1
springfield | 1
suggested | 1

sublime | 1
hear | 1
ward | 2
passenger | 1
hotelscom | 2
symantec | 1
laughing | 1
transition | 2
uw | 1
percentage | 1
officers | 3
marie | 1
guild | 2
mins | 1
zealand | 1
toolkit | 1
yeast | 1
utils | 1
host | 1
todd | 2
girl | 2
fear | 1
ship | 1
exhibit | 1
qualify | 2
tires | 1
underground | 1
playing | 1
gentleman | 1
fetish | 1
server | 2
garage | 1
memphis | 1
intelligent | 1
institution | 2
lexus | 1
ncaa | 1
execute | 1
home | 1
toddler | 1
rolling | 1
george | 1
twist | 1
shelter | 1
millennium | 2
feedback | 1
famous | 1
muze | 2
steady | 2
favour | 1

respondents | 1
hygiene | 1
thanks | 2
spray | 3
sea | 1
fixtures | 1
per | 1
gray | 1
mx | 3
reject | 1
returned | 1
passing | 1
programmes | 1
qualified | 2
knights | 1
filters | 1
nepal | 1
transport | 1
worldwide | 1
goto | 1
kazakhstan | 1
leather | 1
summit | 1
visitors | 3
extent | 1
fork | 1
valuation | 1
losing | 1
telecharger | 1
lending | 1
opportunities | 1
lived | 1
pockets | 1
mailed | 1
fcc | 1
heavily | 2
inquire | 2
researcher | 1
tour | 2
wage | 1
shoe | 1
russian | 1
pale | 3
mounting | 2
mean | 1
russia | 1
sb | 2
humans | 1
ridge | 1

external | 1
optional | 1
lap | 1
parish | 2
ordering | 1
objects | 1
menu | 2
marriage | 2
remarkable | 2
mv | 1
remark | 2
square | 1
siemens | 3
far | 1
ty | 1
unknown | 1
trembl | 2
nomination | 1
glad | 1
frederick | 1
summary | 3
soldiers | 1
inspections | 1
oz | 1
productivity | 1
personnel | 3
helps | 1
sys | 1
newscom | 2
largest | 1
sl | 2
patient | 1
spending | 1
rico | 1
partnerships | 1
sd | 1
surrounding | 2
sex | 1
salmon | 1
substantial | 1
wx | 1
navigator | 2
lo | 2
msgid | 1
imposed | 1
he | 1
regional | 1
school | 1
hartford | 2

puts | 1
sheffield | 3
savannah | 2
supervisors | 1
negotiations | 1
magical | 1
screen | 1
sn | 1
mega | 1
sheet | 1
reserves | 1
point | 1
featured | 1
jackie | 2
theater | 1
ready | 1
transcripts | 1
ko | 1
lycos | 2
shown | 1
otherwise | 1
rank | 1
struggle | 2
stations | 1
neighbors | 1
trust | 1
rather | 1
surveillance | 1
intended | 2
markers | 1
techniques | 3
occupation | 1
reporters | 1
watershed | 1
present | 2
standings | 1
publicity | 1
vacation | 1
qualification | 2
vulnerable | 3
payment | 1
synthesis | 1
frequently | 2
howto | 1
unauthorized | 1
losses | 1
sparc | 2
hanging | 1
obtain | 1

yesterday | 2
these | 1
habitat | 1
workflow | 1
writings | 1
fundamental | 1
rfc | 1
therefore | 2
islands | 1
rest | 1
slovenia | 1
peeing | 1
highways | 1
susan | 1
their | 2
pipeline | 1
guatemala | 2
problems | 1
robinson | 1
tend | 1
prayers | 1
reflections | 1
survey | 1
tolerance | 1
hampshire | 1
shore | 2
insects | 1
pg | 1
removable | 1
polymer | 1
thereafter | 1
teach | 1
inline | 1
sigma | 1
responsible | 1
hide | 1
sodium | 1
paths | 1
timothy | 3
shares | 1
purchased | 1
spank | 1
ghz | 1
honors | 2
safety | 1
finger | 1
rape | 2
mattress | 1
wing | 1

turtle | 2
impact | 2
los | 1
variations | 1
marco | 1
night | 3
fiscal | 1
mustang | 1
wind | 1
protest | 1
proceed | 1
policy | 1
ticket | 2
mint | 1
terror | 1
trend | 1
printer | 1
generators | 1
hints | 1
jewel | 1
popular | 1
focused | 1
grab | 1
integrating | 1
obj | 1
gdp | 1
marketing | 1
wars | 1
religious | 1
live | 1
webpage | 1
honor | 1
sense | 2
rb | 1
november | 2
guest | 1
success | 1
valuable | 1
lookup | 1
jeans | 1
pe | 1
miami | 2
florida | 1
tail | 1
penguin | 1
slideshow | 1
only | 1
glossary | 1
perceived | 1

supplies | 1
netherlands | 3
ignore | 1
tamil | 1
jp | 2
peninsula | 1
nation | 1
pie | 2
keeps | 1
silence | 1
wisconsin | 1
mt | 1
hardcover | 1
slave | 2
gardening | 1
offensive | 1
third | 1
mayor | 1
pens | 1
tubes | 1
frankfurt | 1
roger | 1
totals | 2
lebanon | 1
no | 1
kenya | 1
oops | 1
raw | 1
sandra | 2
legends | 1
ks | 1
myers | 1
receivers | 1
malawi | 1
joint | 1
preferred | 1
style | 1
left | 1
handle | 1
off | 1
physics | 1
rose | 1
registration | 1
lists | 2
rays | 1
requests | 1
prior | 2
ibm | 1
method | 1

sealed | 1
tracked | 2
lambda | 1
sleeve | 1
violin | 1
housing | 1
ment | 1
potatoes | 1
traffic | 2
pill | 2
verizon | 1
personalized | 1
proper | 1
relates | 4
omaha | 1
up | 1
micro | 1
mph | 1
organizer | 1
surfaces | 1
senegal | 2
future | 1
primary | 1
mlb | 1
lolita | 2
remedy | 1
sensor | 1
holiday | 1
trial | 1
villas | 1
hayes | 1
madagascar | 1
reasonable | 3
hypothetical | 1
span | 1
weird | 1
holy | 1
several | 1
implementation | 1
launched | 1
prisoners | 1
government | 1
preceding | 1
reflected | 2
targeted | 1
saving | 1
parade | 2
narrow | 1
within | 2

```
struct | 1
share | 2
nicole | 1
howard | 1
german | 1
vi | 1
trackbacks | 1
tracker | 1
pasta | 1
half | 3
suspension | 1
hc | 1
refresh | 1
hung | 1
weather | 1
ratings | 1
passage | 1
physician | 1
nose | 1
surgeon | 1
global | 1
sell | 1
uni | 1
linking | 1
stuck | 1
nor | 1
output | 1
references | 1
michel | 1
nail | 1
shops | 1
spot | 1
inspiration | 2
presidential | 1
specs | 2
ribbon | 1
local | 1
restrictions | 1
way | 1
mice | 1
segment | 1
sexy | 1
greene | 1
puzzles | 1
nurse | 1
harassment | 1
listprice | 1
infections | 1
magnitude | 1
```

me | 1
guys | 1
pee | 1
marriott | 1
positive | 1
west | 1
spam | 1
nickel | 3
guru | 1
plastic | 1
lip | 1
won | 1
precision | 1
illustrated | 1
holder | 1
wikipedia | 1
n | 2
roller | 1
ima | 1
who | 1
juice | 1
masters | 3
proudly | 1
stupid | 1
import | 1
prepaid | 2
seeds | 1
hosting | 1
million | 1
teams | 1
searches | 1
reported | 2
spa | 2
mambo | 1
op | 1
methods | 1
sick | 1
hormone | 1
modifications | 1
operated | 1
transparent | 1
sing | 2
palm | 1
into | 2
threatening | 1
robert | 1
sisters | 1
sword | 1
southern | 1

litigation | 1
kit | 2
increase | 1
walk | 1
port | 1
hurt | 1
ours | 2
podcast | 1
largely | 1
occupied | 1
pleasant | 3
mauritius | 1
pack | 3
passes | 1
installation | 1
pod | 1
near | 1
yearly | 1
greg | 1
speech | 1
vii | 1
infectious | 1
lion | 1
visitor | 2
hot | 1
strong | 1
mn | 2
paying | 1
que | 2
perception | 1
performed | 1
ventures | 1
phpbb | 1
other | 2
movies | 2
merit | 1
tanks | 1
rc | 1
springer | 2
herbal | 1
philadelphia | 1
workers | 1
incorporated | 1
remarks | 1
preston | 1
screenshot | 1
parties | 2
spotlight | 1
silent | 1

roughly | 1
ordered | 2
u | 1
wooden | 1
shemales | 1
schedule | 1
j | 1
welcome | 1
indicates | 1
replacement | 2
TRUE | 1
law | 1
univ | 1
wonder | 1
whale | 1
sleeps | 1
harvey | 1
ls | 1
mix | 1
wet | 2
opinions | 1
worlds | 1
slim | 2
pose | 1
powered | 1
tie | 1
occurs | 1
handles | 1
net | 1
removing | 1
my | 1
very | 1
overseas | 1
joshua | 1
row | 1
instructional | 1
hammer | 1
marina | 1
mel | 1
root | 1
ownership | 1
ou | 1
lips | 1
secure | 1
religions | 1
pattern | 1
signals | 2
libraries | 1
literature | 1
income | 1

receive | 1
maps | 1
storage | 1
replacing | 1
refined | 1
recruitment | 1
meaning | 2
malaysia | 1
providence | 1
sophisticated | 1
nightlife | 1
involved | 1
mia | 2
twins | 2
luis | 2
via | 1
its | 1
washer | 1
transfer | 1
reached | 1
vendor | 1
min | 1
shade | 2
move | 1
max | 2
remained | 1
phd | 1
liechtenstein | 1
supplement | 1
ltd | 1
wan | 1
jordan | 2
statewide | 1
prison | 1
perfectly | 2
installations | 1
rail | 2
k | 2
interests | 1
varies | 1
trails | 1
medicaid | 2
hrs | 1
pressing | 1
zambia | 1
skip | 2
viewed | 1
interactions | 1
reserve | 1

videos | 1
smaller | 1
series | 1
vcr | 1
spin | 1
slide | 1
introduces | 2
save | 1
tutorial | 1
reveals | 1
naked | 1
poster | 1
postcard | 1
rachel | 1
licence | 1
movers | 1
idea | 1
lyric | 2
sic | 1
simplified | 1
scuba | 1
passed | 1
istanbul | 1
ion | 1
starter | 1
village | 1
romantic | 1
tp | 1
sensors | 1
latex | 1
rice | 1
personals | 1
make | 1
subaru | 1
unix | 1
positions | 1
william | 1
incorrect | 1
nov | 1
produced | 1
older | 1
step | 1
surfing | 1
por | 1
peripherals | 2
tales | 1
joining | 1
ink | 1
resources | 1

letting | 1
understanding | 1
jean | 1
parking | 1
nearest | 1
premises | 1
palestine | 1
strings | 1
occurred | 1
seek | 1
rings | 1
thesis | 1
peter | 2
uploaded | 2
ip | 1
neo | 1
wanted | 1
singapore | 1
ve | 2
report | 1
scanned | 1
observer | 1
tion | 1
july | 1
moss | 1
loose | 1
nude | 1
printing | 1
rt | 1
solo | 1
poland | 1
iron | 1
vacations | 3
kijiji | 1
wise | 1
philips | 1
indicating | 1
stack | 1
sunshine | 1
ieee | 1
internet | 1
reputation | 1
restaurants | 1
limousines | 1
nasa | 1
range | 1
kw | 1
safer | 1
race | 1

vote | 1
miller | 1
ron | 1
interact | 1
limit | 1
ps | 1
naturally | 1
lighting | 1
march | 1
lung | 1
yields | 1
railway | 1
pipes | 2
indonesian | 1
monica | 1
ripe | 1
tin | 2
man | 1
professional | 1
packard | 1
institutes | 1
psp | 1
priorities | 1
minister | 1
rising | 1
revealed | 1
techrepublic | 1
wider | 1
nutrition | 1
oe | 1
recorders | 1
meetup | 1
takes | 1
screenshots | 2
returns | 1
structured | 2
nature | 1
tuning | 1
snow | 1
sensitivity | 1
quantitative | 1
knee | 1
scout | 1
moses | 1
ottawa | 1
vienna | 1
powerful | 1
yang | 1
uv | 2

rna | 1
sharp | 1
representing | 1
weddings | 1
told | 1
proposal | 1
services | 1
lancaster | 1
rob | 1
taste | 1
palmer | 1
representation | 1
particle | 1
showcase | 1
ind | 1
reasons | 1
possess | 1
opposition | 1
mp | 1
winners | 1
load | 2
nfl | 1
requirement | 1
recognize | 1
nickname | 1
sequences | 1
resolve | 1
louis | 1
loops | 1
oklahoma | 1
specialists | 1
she | 1
temperatures | 1
memory | 1
washington | 1
pc | 1
wifi | 1
younger | 1
upcoming | 1
sailing | 1
ta | 1
volleyball | 1
norman | 1
nearby | 2
johnson | 1
reforms | 1
yukon | 1
memo | 1
pursuant | 1

spice | 1
record | 1
movements | 1
opposed | 1
retrieval | 1
nathan | 1
room | 1
parenting | 1
throughout | 1
surprising | 1
meanwhile | 1
johns | 1
suffering | 1
mad | 1
planning | 1
informal | 1
wait | 2
tapes | 2
locations | 1
telecommunications | 1
made | 1
situation | 2
miss | 2
o | 1
project | 1
ryan | 1
mario | 1
war | 1
volvo | 1
psychiatry | 1
valve | 1
tank | 2
pollution | 1
panasonic | 1
typically | 1
strange | 1
living | 1
peoples | 1
jumping | 1
joe | 1
tax | 1
pierce | 1
scenarios | 2
weekend | 1
specials | 2
ranging | 1
marble | 1
units | 1
province | 1

universe | 1
nextel | 1
webshots | 1
profiles | 1
savage | 1
routers | 1
wants | 1
x | 2
pussy | 1
plasma | 1
minds | 1
mill | 1
producers | 1
soma | 1
undertaken | 1
node | 1
shoulder | 1
start | 1
speeches | 2
mirrors | 1
velvet | 1
radius | 1
vietnamese | 1
nest | 1
so | 1
translation | 1
vast | 1
queens | 2
procedure | 1
past | 2
pantyhose | 1
ver | 1
sweet | 1
seven | 1
legend | 1
textiles | 1
vc | 1
spread | 2
substitute | 1
posted | 1
ruling | 1
stranger | 1
marketplace | 1
playboy | 1
pond | 1
virgin | 2
plains | 1
pix | 1
mar | 1

lakes | 1
legs | 2
rocks | 1
republican | 1
view | 2
vocal | 1
minor | 1
sk | 1
mc | 1
licensed | 1
screensavers | 1
salad | 1
preview | 1
salvation | 1
wma | 1
performances | 2
s | 1
nn | 1
separate | 1
pos | 1
subscriber | 1
sides | 1
prove | 1
mold | 1
ww | 1
seat | 1
malpractice | 1
meter | 1
shipment | 1
year | 1
vg | 1
voted | 1
rrp | 1
stars | 1
residence | 1
stamp | 1
monitor | 1
phi | 1
taxation | 1
now | 1
monkey | 1
tournament | 1
notified | 1
karma | 1
static | 2
monday | 1
location | 1
pointed | 1
tried | 1

jesse | 1
paypal | 1
season | 1
reviewed | 1
networking | 1
participate | 1
reid | 1
track | 1
sum | 2
special | 1
milan | 1
preparing | 1
statement | 1
tiles | 1
weighted | 1
movement | 1
rabbit | 1
kiss | 1
olympus | 1
nr | 1
pieces | 1
wrong | 1
shopper | 1
launches | 1
proposals | 1
tooth | 2
plymouth | 1
va | 1
satisfactory | 2
wt | 1
mae | 1
plots | 1
territories | 1
offerings | 1
talks | 1
semi | 1
welding | 1
supervision | 1
months | 1
televisions | 1
threatened | 1
kernel | 1
tba | 1
salt | 1
murphy | 1
latest | 1
part | 1
treaty | 1
relations | 1

tuner | 1
mechanics | 1
packages | 2
packets | 1
or | 1
ultra | 1
promoted | 1
oxygen | 1
yugoslavia | 1
solving | 1
womens | 1
toll | 1
treat | 1
tropical | 1
orgasm | 1
wall | 1
titles | 1
white | 1
remains | 1
vertex | 1
suites | 1
manor | 1
surgical | 1
mozilla | 1
replaced | 1
tennis | 1
suddenly | 1
shortcuts | 1
lucia | 1
occasions | 1
sexual | 1
refers | 1
mississippi | 1
state | 1
sarah | 2
lenses | 1
sig | 1
quoted | 1
words | 1
trash | 1
seq | 1
oriental | 1
veterinary | 1
scientific | 1
stadium | 1
stability | 1
specialty | 1
minneapolis | 1
msn | 1

```
reception | 1
recipe | 1
spectacular | 1
regulated | 1
richards | 1
moved | 1
minute | 1
peak | 1
mods | 1
philosophy | 1
lc | 1
throw | 1
lifestyle | 1
whats | 1
microsoft | 1
mail | 2
tom | 1
proc | 1
nano | 1
letters | 1
sri | 1
tests | 1
proceeds | 1
seo | 1
pounds | 1
suggesting | 1
texas | 1
postposted | 1
realty | 1
vaccine | 1
relocation | 1
-----
Conteo Total de Palabras: 5000
Tiempo de Ejecución (segundos): 0.07855998299964995
```

#Análisis del código mejorado

```
!pylint wordCount.py

***** Module wordCount
wordCount.py:1:0: C0103: Module name "wordCount" doesn't conform to
snake_case naming style (invalid-name)

-----
Your code has been rated at 9.87/10 (previous run: 9.87/10, +0.00)
```

#Conclusiones

La implementación de este programa logró realizar un conteo de palabras a partir de un archivo de texto utilizando exclusivamente algoritmos básicos, cumpliendo con los requisitos establecidos y evitando el uso de librerías y funciones de alto nivel. EL diseño modular de código nos permite identificar claramente las etapas de lectura de datos, procesamiento, y presentación de los resultados, esto a futuro permite que otros desarrolladores, o programadores e inclusive la persona que lo desarrollo, lo comprendan, le den mantenimiento y lo puedan validar, en tiempos más cortos.

La correcta gestión de los errores y la medición de tiempo de ejecución garantizan un comportamiento robusto del programa incluso ante archivos de gran volumen de información o datos. La solución muestra una comprensión adecuada de los fundamentos de programación, estructuras de datos básicas y buenas prácticas de programación, permitiendo una implementación funcional, eficiente y alineada con los criterios solicitados.

Los requisitos que se mencionan en el ejercicio son los siguientes:

1. El programa será invocado desde la línea de comandos. El programa recibirá un archivo como parámetro. El archivo contendrá palabras (presumiblemente entre espacios). **Se cumple con el requisito**
2. El programa identificará todas las palabras distintas y su frecuencia (cuantas veces aparece la palabra "x" en el archivo). Los resultados se mostrarán en pantallas y en un archivo llamado WordCountResults.txt. Todos los cálculos deben realizarse utilizando los algoritmos básicos, no funciones, ni bibliotecas. **Se cumple con el requisito**
3. El programa incluirá un mecanismo para gestionar datos no válidos en el archivo. Los errores se mostrarán en consola y la ejecución continuará. **Se cumple con el requisito**
4. El nombre del programa será wordCount.py. **Se cumple con el requisito**
5. El formato mínimo para invocar el programa será el siguiente: python wordCount.py fileWithData.txt. **Se cumple con el requisito**
6. El programa gestionará archivos con un número de elementos que puede variar desde cientos hasta miles. **Se cumple con el requisito**
7. El programa debe incluir al final de la ejecución el tiempo transcurrido para la ejecución y el cálculo de los datos. Este número se incluirá en el archivo de resultados y en la pantalla. **Se cumple con el requisito**
8. Cumplir con la norma PEP8. **Se cumple con el requisito**

Nota, pylint en el código sin mejoras nos envía el siguiente mensaje "**wordCount.py:1:0: C0103: Module name "wordCount" doesn't conform to snake_case naming style (invalid-name)**", al correr el código mejorado, el mensaje se mantiene, sin embargo decidimos dejar el nombre del programa como se menciona en el requisito número 4.

Los tiempos de ejecución de los diferentes archivos los mostramos a continuación:

- TC1.txt -----> 0.0009147 segundos, 100 palabras
- TC2.txt -----> 0.0011721 segundos, 184 palabras
- TC3.txt -----> 0.0035882 segundos, 500 palabras
- TC4.txt -----> 0.0066697 segundos, 1000 palabras
- TC5.txt -----> 0.17366869 segundos, 5000 palabras

La calificación el primer código fue de 8.55/10, mientras que el código mejorado presenta una calificación de 9.87/10. La mejoría para esta ocasión fue de 1.32 puntos, consideramos que es buena.