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A01382039

Github Permalink:

https://github.com/SebastianAri/Quality/tree/d86a62ee255e4827ddb1714191b5a8197e2efb14/A01382039_A4



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Quality / A01382039_A4 / 4.2.P1 / computer_statistics.ipynb



SebastianAri A4

1 minute ago



341 lines (341 loc) · 10.7 KB

Preview

Code

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Raw



In []:

```
import time
import math

def read_file(file_path):
    """
    Read the file and return a list of numbers.
    """
    data = []
    try:
        with open(file_path, 'r', encoding='utf-8') as file:
            for line_num, line in enumerate(file, start=1):
                try:
                    number = float(line.strip())
                    data.append(number)
                except ValueError:
                    print(f"Warning: Invalid data at line \
{line_num}: '{line}'")
    except FileNotFoundError:
        print(f"Error: File '{file_path}' not found.")
        return []
    except PermissionError:
        print(f"Error: Permission denied for file \
'{file_path}'.")
        return []
    # Consider catching more specific exceptions if you
    # have other known possible errors

    return data

def compute_descriptive_statistics(data):
    """
    Compute descriptive statistics and return the results.
    """
    if not data:
        return None, None, None, None, None
    mean = sum(data) / len(data)
    sorted_data = sorted(data)
    n = len(sorted_data)
    median = (sorted_data[n // 2 - 1] + sorted_data[n // 2]) \
        / 2 if n % 2 == 0 else sorted_data[n // 2]
    frequency = {}
    for num in data:
        frequency[num] = frequency.get(num, 0) + 1
    mode = [k for k, v in frequency.items() \
            if v == max(frequency.values())]
    mode = mode[0] if mode else None
    variance = sum((x - mean) ** 2 for x in data) / len(data)
    standard_deviation = math.sqrt(variance)
    return mean, median, mode, standard_deviation, variance

def print_and_save_results(results, elapsed_time):
    """
    Print and save the descriptive statistics along
    with the elapsed time.
    """
    mean, median, mode, standard_deviation, variance = results

    print("Descriptive Statistics:")
    print(f"Mean: {mean}")
    print(f"Median: {median}")
    print(f"Mode: {mode}")
    print(f"Standard Deviation: {standard_deviation}")
```

```

print(f"Variance: {variance}")
print(f"Time Elapsed: {elapsed_time} seconds")

with open('StatisticsResults.txt', 'w', encoding='utf-8')\
as result_file:
    result_file.write("Descriptive Statistics:\n")
    result_file.write(f"Mean: {mean}\n")
    result_file.write(f"Median: {median}\n")
    result_file.write(f"Mode: {mode}\n")
    result_file.write(f"Standard Deviation: \
{standard_deviation}\n")
    result_file.write(f"Variance: {variance}\n")
    result_file.write(f"Time Elapsed: {elapsed_time} seconds\n")

def main(file_name):
    """
    Main function to compute descriptive statistics.
    Assumes file_name is in the current working directory
    or provides a full path.
    """
    # If file_name is not a full path, this will look for it in the
    #current working directory
    file_path = file_name

    start_time = time.time()

    data = read_file(file_path)
    if not data:
        return

    elapsed_time = time.time() - start_time

    results = compute_descriptive_statistics(data)
    print_and_save_results(results, elapsed_time)

```

```
In [ ]: main('TC1.txt')
```

```

Descriptive Statistics:
Mean: 242.32
Median: 239.5
Mode: 393.0
Standard Deviation: 145.25810683056557
Variance: 21099.917599999997
Time Elapsed: 0.0016527175903320312 seconds

```

```
In [ ]: main('TC2.txt')
```

```

Descriptive Statistics:
Mean: 250.7840161861406
Median: 247.0
Mode: 230.0
Standard Deviation: 144.17131868884059
Variance: 20785.369132479238
Time Elapsed: 0.0025501251220703125 seconds

```

```
In [ ]: main('TC3.txt')
```

```

Descriptive Statistics:
Mean: 249.77621989860583
Median: 249.0
Mode: 94.0
Standard Deviation: 145.31784980917962
Variance: 21117.27747316329
Time Elapsed: 0.00987696647644043 seconds

```

```
In [ ]: main('TC4.txt')
```

```
Descriptive Statistics:  
Mean: 149.00267347908746  
Median: 147.75  
Mode: 123.75  
Standard Deviation: 130.41441961308894  
Variance: 17007.920843018837  
Time Elapsed: 0.007901668548583984 seconds
```

```
In [ ]: main('TC5.txt')
```

```
Warning: Invalid data at line          5: 'ABA  
,  
Warning: Invalid data at line        155: '23,45  
,  
Warning: Invalid data at line        232: '11;54  
,  
Warning: Invalid data at line        239: '11  
,  
Descriptive Statistics:  
Mean: 241.49511400651465  
Median: 241.0  
Mode: 393.0  
Standard Deviation: 145.46484786056646  
Variance: 21160.021963097748  
Time Elapsed: 0.002599000930786133 seconds
```

```
In [ ]: main('TC6.txt')
```

```
Descriptive Statistics:  
Mean: 1.8790659927977473e+20  
Median: 1.88008049965543e+20  
Mode: 1.27620004531949e+20  
Standard Deviation: 1.0738205017381e+20  
Variance: 1.1530904699530647e+40  
Time Elapsed: 0.0021708011627197266 seconds
```

```
In [ ]: main('TC7.txt')
```

```
# pylint: disable=C0304
```

```
Warning: Invalid data at line          183: 'ABBA  
,  
Warning: Invalid data at line        229: 'ERROR  
,  
Descriptive Statistics:  
Mean: 2.474673954997149e+20  
Median: 2.4664097307429e+20  
Mode: 1.57638329490099e+20  
Standard Deviation: 1.4460564700984703e+20  
Variance: 2.0910793147136484e+40  
Time Elapsed: 0.009905815124511719 seconds
```



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[Quality](#) / [A01382039_A4](#) / [4.2.P3](#) / [wordCount.ipynb](#)



SebastianAri A4

2 minutes ago



5680 lines (5680 loc) • 153 KB

In [1]:

```
# -*- coding: utf-8 -*-

import time
import string
import os

"""
Module to perform word frequency count on a given text file.
"""

# Assume the file is in the current working directory or a full path is provided
def process_file(file_path):
    """
    Process the given text file and return a list of words.
    """
    try:
        with open(file_path, 'r', encoding='utf-8') as file:
            words = file.read().split()
            return words
    except FileNotFoundError:
        print(f"Error: File '{file_path}' not found.")
        return []

def count_words(words):
    """
    Count the frequency of each word in the given list of words.
    """
    word_count = {}
    for word in words:
        word = word.strip(string.punctuation).lower()
        if word:
            word_count[word] = word_count.get(word, 0) + 1
    return word_count

def print_results(word_count, elapsed_time):
    """
    Print the word frequency count and total count.
    """
    print("Word Frequency Count:")
    total_count = 0
    for word, count in word_count.items():
        print(f"{word}: {count}")
        total_count += count

    print("\nTotal Count:", total_count)
    print("Time Elapsed:", elapsed_time, "seconds")

def save_results(word_count, elapsed_time):
    """
    Save the word frequency count and elapsed time to a file.
    """
    with open('WordCountResults.txt', 'w', encoding='utf-8') as result_file:
        result_file.write("Word Frequency Count:\n")
        for word, count in word_count.items():
            result_file.write(f"{word}: {count}\n")
        result_file.write("\nTime Elapsed: " + str(elapsed_time) + " seconds\n")

def main(file_name):
    """
    Main function to perform word frequency count.
    """
    # Check if file_name is a path or just a filename
```

```

if not os.path.isabs(file_name):
    # If just a filename, construct a path assuming it's in the current working direc
    file_path = os.path.join(os.getcwd(), file_name)
else:
    # If an absolute path, use it directly
    file_path = file_name

start_time = time.time()

words = process_file(file_path)
if not words:
    return

word_count = count_words(words)

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

print_results(word_count, elapsed_time)
save_results(word_count, elapsed_time)

```

In [2]: `main('TC1.txt')`

Word Frequency Count:

```

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

Total Count: 100
Time Elapsed: 0.0002434253692626953 seconds

```
In [3]: main('TC2.txt')
```

Word Frequency Count:
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
..... 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

```
faculty: 1  
initiative: 1  
variety: 1  
ion: 1  
interface: 1  
remained: 1  
icons: 1  
excessive: 1  
jon: 1
```

Total Count: 184

Time Elapsed: 0.00027871131896972656 seconds

In [4]: `main('TC3.txt')`

Word Frequency Count:

```
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  
----- 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

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
representative: 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

```
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
```

Total Count: 500
Time Elapsed: 0.0004887580871582031 seconds

In [5]: `main('TC4.txt')`

Word Frequency Count:

```
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
suspensions: 1
```

tragrances: 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
nuhs: 1

pass: 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
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Total Count: 1000

Time Elapsed: 0.0011363029479980469 seconds

In [6]: `main('TC5.txt')`

Word Frequency Count:

loaded: 2
wilderness: 5
specify: 2
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uniprotkb: 1
retailer: 3
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reasoning: 2
breathing: 1
ozone: 3

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looksmart: 1
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developer: 1
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pete: 2
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stating: 1

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writer: 1
volunteers: 1
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variance: 2
coalition: 1
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resulted: 1
olympic: 1
trip: 1
fin: 1
mineral: 1
pan: 1
wizard: 1
wayne: 1
penn: 1
livecam: 1
mortgage: 2
stream: 2
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treated: 2
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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
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wherever: 1
nursing: 2
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pink: 2
technological: 2
despite: 2
think: 2
distributor: 1
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cologne: 1
finishing: 2
gtk: 3
greater: 1
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keywords: 1
craps: 1
rec: 3
skirts: 2
mileage: 1
circle: 1
wiki: 1
hill: 2
practitioners: 1
essence: 2
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estimation: 1
walls: 1
collective: 1
shaft: 1
rn: 2
sacrifice: 2
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polished: 1
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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
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triple: 2
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lauren: 1
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pf: 1
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tampa: 3
firmware: 1
type: 1
pets: 5
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ruby: 1
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bits: 1
martial: 3
lows: 2
nationally: 2
manhattan: 1
instrumentation: 1
hometown: 1
hey: 1
zen: 1
noble: 1
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multiple: 1
decrease: 1
http: 2
organic: 2
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uri: 1
lowest: 2
grown: 2
terrible: 1
um: 3
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mart: 1
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practice: 1
brave: 1
restructuring: 1
improvement: 2
efficient: 1
players: 1
pam: 2
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notes: 2
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transmit: 1
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reflect: 1
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show: 1
prediction: 2
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flexible: 1
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failure: 1
clause: 1
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depression: 1
evolution: 1
erik: 1
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exploration: 1
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construct: 1
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grocery: 2
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wed: 1
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mixer: 2
wichita: 1
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postage: 1
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proof: 1
pct: 1
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grip: 1
hope: 1
l: 1
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quarters: 2
wow: 1
jury: 1
reaction: 1
soup: 2
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shadow: 1
macro: 1
hold: 2
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consultant: 1
mary: 1
limited: 1
not: 2
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resistance: 2
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looking: 1
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liz: 1
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sewing: 1
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duke: 1
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stainless: 1
shaved: 1
ongoing: 1
findlaw: 1
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network: 2
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members: 1
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dem: 1
subcommittee: 1
wanting: 1
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preference: 1
scotia: 1
tall: 2
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pp: 2
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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

[Quality](#) / [A01382039_A4](#) / [4.2.P3](#) / [wordCount.ipynb](#)

[↑ Top](#)

Preview

Code

Blame

Raw



acuter: 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
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spy: 1
rj: 1
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preventing: 1
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warriors: 1
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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
lago: 2

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
```

Total Count: 5000

Time Elapsed: 0.004549980163574219 seconds

In [7]:

```
# pylint: disable=C0304
```



SebastianAri /
Quality



<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights



[Quality](#) / [A01382039_A4](#) / [4.2-1.P2](#) / [convert_numbers.ipynb](#)



SebastianAri A4

1 minute ago



1512 lines (1512 loc) • 44.5 KB

Preview

Code

Blame

Raw



In [1]:

```
import os
import time

"""
This module converts numbers from a file into binary and
hexadecimal formats, prints the results, and saves them
to a file.
"""

def read_file(file_path):
    """
    Read the file and return a list of numbers.
    """
    data = []
    try:
        with open(file_path, 'r', encoding='utf-8') as file:
            for line_num, line in enumerate(file, start=1):
                try:
                    number = float(line.strip())
                    data.append(number)
                except ValueError:
                    print(f"Warning: Invalid data at line {line_num}:\n"
                          '{line}')
    except FileNotFoundError:
        print(f"Error: File '{file_path}' not found.")
        return []
    except PermissionError:
        print(f"Error: Permission denied for file '{file_path}'.")
        return []
    # It's recommended to handle specific exceptions; for unexpected
    # ones, consider logging or re-raising.
    return data

def convert_numbers(data):
    """
    Convert numbers to binary and hexadecimal.
    """
    binary_results = [bin(int(num)) for num in data]
    hexadecimal_results = [hex(int(num)) for num in data]
    return binary_results, hexadecimal_results

def print_and_save_results(binary_results, hexadecimal_results, \
                           elapsed_time):
    """
    Print and save the conversion results along with the elapsed time.
    """
    print("Conversion Results:")
    print("Binary:")
    for result in binary_results:
        print(result)
    print("\nHexadecimal:")
    for result in hexadecimal_results:
        print(result)

    with open('ConversionResults.txt', 'w', encoding='utf-8') \
    as result_file:
        result_file.write("Conversion Results:\n")
        result_file.write("Binary:\n")
        result_file.write("\n".join(binary_results) + "\n\n")
        result_file.write("Hexadecimal:\n")
```

```

        result_file.write("\n".join(hexadecimal_results) + "\n")
        result_file.write(f"Time Elapsed: {elapsed_time} seconds\n")
# pylint: disable=W0105

def main(file_name):
    """
    Main function to convert numbers to binary and hexadecimal.
    Assumes file_name is in the current working directory or
    provides a full path.
    """
    if not os.path.isabs(file_name):
        file_path = os.path.join(os.getcwd(), file_name)
    else:
        file_path = file_name

    start_time = time.time()

    data = read_file(file_path)
    if not data:
        return

    elapsed_time = time.time() - start_time

    binary_results, hexadecimal_results = convert_numbers(data)
    print_and_save_results(binary_results, hexadecimal_results, \
                           elapsed_time)

```

In [2]: `main('TC1.txt')`

Conversion Results:

Binary:

```

0b11010101000001100010000
0b1010100001011101111111
0b10100011000110101111
0b1100110111111111101001
0b110110000100110100001
0b1011000000111111000
0b10101101000111001110001
0b1101111110001100111
0b1010010011001101101010
0b1001001100101111111101
0b100100000010110110110
0b101101100010011011001
0b1111010101000110100011
0b11101001100110111101000
0b11010111100001110110101
0b1001011100111110111010
0b1011101100110111110000
0b100000000111110001000001
0b1011001000010001110001
0b1100101111100111100101
0b100010000011100110100
0b100010111111010011100000
0b1011111101100111111100
0b1000010010001101011011
0b1100011100101010
0b100011110001001010011010
0b1011010111110100101011
0b11101010100101011101011
0b11001001111000010001111
0b111000111010010001100
0b1100101100111110101010
0b1111000010100110001010
0b1001111110011000110100

```

0b11100010000010010110100
0b1001000110000100111110
0b1100001010000001011
0b100001001011101010000111
0b100100011011111101010000
0b11111000111010100100
0b110011001100001110110
0b1101010001100001001101
0b100011100000101101010000
0b10100000101101011111010
0b1111100111100110000100
0b110101100001111000111
0b10110010110111100001100
0b10001000011101000100001
0b100001101010110011000100
0b11100011111100100001101
0b111100001101110110100
0b1100111110011001
0b1110110111100010100100
0b11101101001110011001010
0b10111001110110001100101
0b10000000111000111000000
0b100101001111001111011000
0b11110010000001110101111
0b1101101110010010110111
0b100011011111001110100100
0b1000101110110001001000
0b110000001001000011
0b10100000101110111111011
0b110110000101101001
0b11110010110101000100011
0b1100001100000111100001
0b11011000110111011011101
0b1001001011111111000100000
0b100101000011100000101000
0b10110011100010101
0b10000110110110001111110
0b100100111011110101001010
0b1001110110110100010000
0b10010111111100110110110
0b10111111101011011111010
0b100101011111101000010
0b10101100001111101110
0b11111000011100110101
0b1111010000110000010
0b11011100000011011100111
0b10000001101110100010010
0b1111011101111111110100
0b1010100000011011000000
0b1101110100110000111
0b11010000011110101100010
0b110010101100010100
0b11011110001011111111011
0b1100100111110110001001
0b10000011010101011010010
0b11111111100101100001111
0b101100011111100101000
0b10011110100111100111001
0b101111111101010110011
0b11001011101011011011010
0b1010010001010000001010
0b1000101011110110100001
0b111011001110111101011
0b1100100010110011001000
0b10010011000101101011011
0b100011111110011111011101
0b1111001110100111010011

0b11111001110001111001110
0b1010110111010011100111
0b11110000110100001010001
0b11011011101111110010
0b110111111001001101100
0b100000001001101011011101
0b1011000101011010011000
0b100101001111100100110001
0b111110111101100010
0b10001111011011001110001
0b1010111110001110101
0b1101001001010110000110
0b10000001100110100100010
0b111000011011000001000
0b11100101000111110000
0b110111100010001001
0b1110111101111000100000
0b100010000000101011110001
0b10000011100000001100110
0b1110110110000000110011
0b100000111010011011110100
0b101100111001101110110
0b110111111111101100111
0b1100111010110101111111
0b1011011100011101100110
0b100010110110011000001010
0b10010100100110010001100
0b10010101100000110
0b1101001100010001111
0b111101010010010100
0b11010110000111100011010
0b11010010011100111100011
0b11111111111011100101110
0b100000111100101011011011
0b11100100101100000001
0b1100100101111011011111
0b101011100111010111101
0b10000000001100110000010
0b10111011001010001001001
0b10110101001011100010101
0b1010111110110001110010
0b100110110010100101
0b1001010100001011100101
0b1011010010000010101010
0b1111010000011000101000
0b1011111111010011110001
0b11111000110000001110111
0b10011101000101110101100
0b10001100001111010101110
0b10000001001111011000111
0b1111000001111110011101
0b11010101111011010000001
0b10101001110100011100
0b11100000111011011001011
0b11110001110000001000001
0b100000000111100100101001
0b11010110010110111010000
0b1110111001100111000100
0b110101111100010101111
0b11100100010011100000
0b10011011001110001100
0b100001100110010100100111
0b1001101011110111111
0b100110000011011001110010
0b1010011010000000100000
0b11100011001011110101111
0b1111100000100110001011

001111100000100110001011
0b100101110111010001011000
0b100010111111110000001
0b11101100000011000101010
0b100000100000111110111
0b100001101111011010001
0b10100010100001111101000
0b1110100101001110111111
0b10100111111101101110010
0b100011001001100001100111
0b11000111000001110101001
0b11110001110100001010100
0b10100000001110010111100
0b100001000011100010010
0b1110011010001001101
0b100100100111001000001110
0b110000010001001101111
0b10100000010101101111
0b10101000101011111000
0b10000010101001110000010
0b11001000001010010100011
0b1110101100101010111010
0b10111111001000110010011
0b10110001110111011010100
0b11110101111011010100111
0b100010011101110110110111
0b11110001110000110110111
0b100011101110100111110011
0b10001011000001111000101
0b1101011101000001100001
0b1100000111100101101111
0b11010001100101001000
0b1000100101100001100110

Hexadecimal:

0x6a8310
0x542eff
0x14635f
0x66ffe9
0x1b09a1
0x581f8
0x568e71
0xdfc67
0x29336a
0x932bfd
0x1205b6
0x16c4d9
0x3d51a3
0x74cde8
0x6bc3b5
0x25cfba
0x5d9bf0
0x807c41
0x2c8471
0x32f9e5
0x110734
0x8bf4e0
0x5fb3fc
0x848d5b
0xc72a
0x8f129a
0x5afa57
0x754aeb
0x64f08f
0x1c748c
0x32cfaa
0x3c298a
0x27e634

0x7104b4
0x24613e
0x6140b
0x84ba87
0x91bf50
0xf8ea4
0x199876
0x35184d
0x8e0b50
0x505afa
0x3e7984
0x1ac3c7
0x596f0c
0x443a21
0x86acc4
0x71f90d
0x1e1bb4
0xcf99
0x3b78a4
0x769cca
0x5cec65
0x4071c0
0x94f3d8
0x7903af
0x36e4b7
0x8df3a4
0x22ec48
0x30243
0x505dfb
0x36169
0x796a23
0x30c1e1
0x6c6edd
0x92fe20
0x943828
0x16715
0x436c7e
0x93bd4a
0x276d10
0x4bf9b6
0x5fd6fa
0x12bf42
0xac3ee
0xf8735
0x7a182
0x6e06e7
0x40dd12
0x3ddff4
0x2a06c0
0x6e987
0x683d62
0x32b14
0x6f17fb
0x327d89
0x41aad2
0x7fcb0f
0x163f28
0x4f4f39
0x2ffab3
0x65d6da
0x29140a
0x22bda1
0x1d9deb
0x322cc8
0x498b5b
0x8fe7dd
0x3ce9d3

0x7ce3ce
0x2b74e7
0x786851
0xdbbf2
0x1bf26c
0x809add
0x2c5698
0x94f931
0x3ef62
0x47b671
0x57c75
0x349586
0x40cd22
0x1c3608
0xe51f0
0x37889
0x3bde20
0x880af1
0x41c066
0x3b6033
0x83a6f4
0x59cac5
0x1951b6
0x1bfff67
0x33ad7f
0x2dc766
0x8b660a
0x4a4c8c
0x12b06
0x6988f
0x3d494
0x6b0f1a
0x6939e3
0x7ff72e
0x83cadb
0xe4b01
0x64bdbf
0x15cebd
0x801982
0x5d9449
0x5a9715
0x2bec72
0x26ca5
0x2542e5
0x5a40aa
0x3d0628
0x2ff4f1
0x7c6077
0x4e8bac
0x461eae
0x409ec7
0x783f9d
0x6af681
0xa9d1c
0x7076cb
0x78e041
0x807929
0x6b2dd0
0x3b99c4
0x1af8af
0xe44e0
0x9b38c
0x866527
0x4d7bf
0x983672
0x29a020
0x7197af

```
0x3e098b
0x977458
0x22ff81
0x76062a
0x1041f7
0x10ded1
0x5143e8
0x3a53bf
0x53fb72
0x8c9867
0x6383a9
0x78e854
0x501cbc
0x108712
0x7344d
0x92720e
0x18226f
0xa056f
0x54578
0x415382
0x6414a3
0x3acaba
0x5f9193
0x58eed4
0x7af6a7
0x89ddb7
0x78e1b7
0x8ee9f3
0x4583c5
0x35d061
0x30796f
0xd1948
0x225866
```

```
In [3]: main('TC2.txt')
```

Conversion Results:

Binary:

```
0b11011001001011111101000
0b110010110110100100100
0b100001111001101011000111
0b11001100111011000101
0b11100001101001111000
0b11111010100100000110
0b110001010010110111101
0b100000011101111000011
0b10100101110001111011
0b10011110110000000110010
0b100100010000000111011
0b11000011101001011011
0b1110011110111110001110
0b11100100100011010110001
0b100101001001111011110100
0b100010110100101100100001
0b10100111000010010110111
0b10000100110010000000101
0b11111011011001111100010
0b100001000110111001111110
0b1011110001101111000
0b10110011000011101001100
0b100101010101111101001110
0b100010010101001000011011
0b10000110000011001010111
0b111111011010110110011
0b1011101101100010101100
0b1110001101101010111110
0b10101011111110110110110
```

0b100101101010000001100
0b10111001110110010001011
0b110110101100100111100
0b11000000001110000001101
0b1001001011111001100110
0b1000000111011010010100
0b11110010000101011101
0b11000101000000110111011
0b11101110111011010110111
0b11000001001001001100011
0b100110000101000101100001
0b1000101111100100110110
0b100000101010110100000
0b100000011111101011011000
0b11000010101001111100110
0b11101100101100111100010
0b11011001000010001010111
0b1010001111101111001001
0b10010110110111011010
0b111100001000001000
0b10111001011010000110010
0b11110010000001011011
0b11001110000111110011010
0b1011110101100111001010
0b1100010100010010101010
0b11001111000111000111111
0b10100010101000010111101
0b1000111001111110110111
0b110111010110110010100
0b11000110111000011011001
0b10011010010001011110101
0b1011001110110111000101
0b11001010101101001011001
0b1001110000111011010011
0b11001001010101111111111
0b10110001110011010011010
0b10001101101011000011111
0b111000110110011110100
0b10111000010100001010011
0b110011010000000011000
0b10010111100001110000001
0b11001010000100100100011
0b1100101110011111011001
0b11111111000100000111
0b10111101010000010000101
0b11000000001011000001100
0b11011000001110101110
0b100000100110101001001011
0b1100101111110100010011
0b1101011110010110011000
0b100001110111000011001000
0b1100110101011100101000
0b1101100000010000001011
0b1011011101010111010001
0b10001000110001001100010
0b10001001111000000000101
0b1110010111101011101101
0b100110000110011011101
0b100001001011101000001001
0b10001101001100001000101
0b110101100100011011000
0b1010100000101100001100

0b10011101001011110011000
0b100011101001100010010001
0b11001111010000110100
0b1010010101010100001100
0b11111111100000011100011
0b1101011100000111000111
0b1010000000101100011011
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0b10010000111111000001101
0b1110011000100011100101
0b100000001001010101000
0b11001011011100011011
0b10001101010111111001110
0b1000011100010000110101
0b10011010001101100000101
0b110010110011100111100
0b10011011011110011001110
0b11110110010010010001101
0b11010000111110110100001
0b10000011100101100010000
0b1011011110101110001101
0b110001101101110110001
0b100000001010100100011011
0b11100111011001011111000
0b11011111110000100110011
0b1001100101101000111
0b11101000111011010111000
0b100101001100001100110111
0b10000111000111010011011
0b10000101010100110111101
0b11000100100000110010110
0b11000101100011110000011
0b11000100101110010101001
0b100101011101001011010100
0b100100000000001101110101
0b1010101101111010011011
0b1101001100110011010000
0b100000001010010100111000
0b100101010010011011000001
0b100100011110001000011011
0b1101001000000001011100
0b1101011100111111001111
0b1000110001010100110
0b1111011011001101111100
0b1011001110101101001100
0b100010011100110100110010
0b11100110000001110000100
0b11011011110101101001001
0b10101100000110011101000
0b100100000010101011001110
0b100101111110010001011000
0b1010111001011110011011
0b101000101001110010110
0b11010101001010000010101
0b111010110001010000010
0b1000001010000000111011
0b1010100110100110111
0b100001101110000011011110
0b1111000100110000100100
0b1110010100110001011110
0b11010001100101011100111
0b10000101110000111000111
0b110011001110110100000100

0b11011001011101000000100
0b11101110000001110110100
0b100001100000100100011100
0b101001111001010001001
0b101000100001101110000
0b10001100011101010101111
0b11000111000110101010001
0b100011100010011011101000
0b11111001100000000
0b10000000000000011010100
0b11010010000100011100101
0b1000101111011000100111
0b1011110101001001010110
0b101010001100110101001
0b100101101010011111100000
0b11010001110000110011100
0b11111001110011100100010
0b1001011001110000010010
0b1111111111101001010010
0b10101010010101010000100
0b1110111001000001110111
0b100001111000100101011111
0b100010000110111110000100
0b10010110110101101101111
0b11000101100011000
0b11100100000000001001100
0b111010111101101100011
0b1111010111000000010000
0b11000010000100111000101
0b111100000011000011110
0b11001000101001111001100
0b1000110111001110001110
0b11001101100011110010000
0b100001111011110101110010
0b10000001010101100001011
0b11011000011101101001101
0b100111

Hexadecimal:

0x6c97e8
0x196d24
0x879ac7
0xccec5
0xe1a78
0xfa906
0x18a5bd
0x103bc3
0xa5c7b
0x4f6032
0x9103b
0xc3a5b
0x39ef8e
0x7246b1
0x949ef4
0x8b4b21
0x5384b7
0x84c805
0x7db3e2
0x846e7e
0x5e378
0x59874c
0x4aaf4e
0x89521b
0x430657
0x1fb5b3
0x2ed8ac
0x71b55e
0xc5f4b6

0x551a00
0x12d40c
0x5cec8b
0x1b593c
0x601c0d
0x24be66
0x81da94
0xf215d
0x6281bb
0x7776b7
0x609263
0x985161
0x22f936
0x1055a0
0x81fad8
0x6153e6
0x7659e2
0x6c8457
0x28fbc9
0x96dda
0x3c208
0x5cb432
0xf205b
0x670f9a
0x2f59ca
0x3144aa
0x678e3f
0x5150bd
0x239fb7
0x6ead94
0x6370d9
0x5b22f5
0x58edc5
0x655a59
0x270ed3
0x64abff
0x58e69a
0x46d61f
0x1c6cf4
0x5c2853
0x334018
0x4bc381
0x650923
0x32e7d9
0xff107
0x5ea085
0x60160c
0xd83ae
0x826a4b
0x65fd13
0x6bcb98
0x345685
0x94fd1a
0x97f4cd
0xf59c6
0x508350
0x8770c8
0x335728
0x36040b
0x2dd5d1
0x446262
0x89e005
0x397aed
0x4c336d
0x84ba09
0x469845
0x1ac8d8
0x2a0b0c

0x4e9798
0x8e9891
0xcf434
0x29550c
0x7fc0e3
0x35c1c7
0x280b1b
0x8634d4
0x235f14
0x487e0d
0x3988e5
0x1012a8
0xcb71b
0x46afce
0x21c435
0x4d1b05
0x64a3a
0x4acabc
0x4dbcce
0x7b248d
0x687da1
0x41cb10
0x2deb8d
0x18dbb1
0x80a91b
0x73b2f8
0x6fe133
0x4cb47
0x7476b8
0x7c882f
0x6a37bf
0x69426a
0x94c337
0x438e9b
0x42a9bd
0x624196
0x62c783
0x625ca9
0x95d2d4
0x900375
0x2ade9b
0x34ccd0
0x80a538
0x9526c1
0x91e21b
0x34805c
0x6b9fcf
0x462a6
0x3db37c
0x2ceb4c
0x89cd32
0x730384
0x6deb49
0x560ce8
0x902ace
0x97e458
0x2b979b
0x145396
0x6a9415
0x1d6282
0x20a03b
0x54d37
0x86e0de
0x3c4c24
0x394c5e
0x68cae7
0x42e1c7

```
0x6cba04
0x7703b4
0x86091c
0x14f289
0x144370
0x8c755f
0x638d51
0x8e26e8
0x1f300
0x8000d4
0x6908e5
0x22f627
0x2f5256
0x1519a9
0x96a7e0
0x68e19c
0x7ce722
0x259c12
0x7ffa52
0x552a84
0x7b9077
0x87895f
0x886f84
0x4b6b6f
0x18b18
0x72004c
0x1d7b63
0x7ae010
0x6109c5
0x1e061e
0x6453cc
0x23738e
0x66c790
0x87bd72
0x40ab0b
0x6c3b4d
0x27
```

```
In [4]: main('TC3.txt')
```

Conversion Results:

Binary:

```
-0b100111
-0b100100
0b1000
0b100010
0b10001
0b110001
0b101
0b100111
0b0
0b100001
0b1100
-0b110
0b11011
-0b100
-0b100110
0b11010
0b110001
0b11101
0b101010
-0b10000
-0b11100
0b100010
0b10100
0b0
0b11001
```

0b101101
0b11
-0b101110
-0b101110
0b11101
0b100001
0b11101
0b11010
-0b101
-0b100100
0b1100
0b101101
-0b110010
0b0
-0b110
-0b100111
0b100011
0b11010
-0b100011
-0b101010
0b1110
-0b11
0b10110
-0b101111
0b1100
-0b10001
-0b11111
-0b11001
-0b100011
-0b10010
0b1110
0b100101
-0b1000
-0b101001
-0b110010
-0b1001
0b10
0b1100
-0b100111
-0b10001
0b0
0b11011
0b11100
0b101101
-0b101100
0b11100
0b100011
-0b100001
0b101011
-0b100
0b10111
-0b110001
0b110001
-0b111
-0b100110
-0b101101
0b101
-0b10101
0b11010
-0b10
-0b11000
0b110
-0b101101
-0b100
0b1111
0b0
-0b10001

-0b100011
0b101011
0b101101
-0b100011
-0b1000
0b11100
0b101111
0b100010
-0b11000
-0b101010
-0b1101
0b1110
-0b101101
-0b100011
0b11011
-0b1100
-0b10011
-0b10100
-0b1110
0b10100
0b11110
0b1100
-0b100100
-0b101111
-0b11011
-0b11
0b110
0b100100
0b1001
-0b10000
0b100100
-0b11011
0b111
-0b110
-0b101
0b101
0b101111
0b10111
-0b110000
-0b11000
0b101000
-0b100
-0b10010
-0b10011
0b1110
0b1111
0b1
0b11000
-0b1001
-0b110010
0b10010
0b1111
0b11110
0b101100
0b1001
0b10011
0b100001
0b101001
-0b11000
0b101011
0b110000
-0b10111
0b111
0b11100
0b1000
-0b10
0b100101

0b101010
-0b10001
-0b110
0b100100
0b10110
0b11011
0b11111
-0b101111
-0b101011
0b0
0b11011
0b11110
0b1100
-0b1111
-0b10011
-0b101010
-0b100101
0b11111
-0b1010
0b10010
0b100001
-0b1111
0b10001
0b11001
-0b11001
-0b101
0b100001
-0b1101
0b100001
-0b1010
0b101111
0b101111
-0b1101
-0b100000
0b1
0b1
-0b11001
-0b100001
0b10000
0b10001
0b100

Hexadecimal:

-0x27
-0x24
0x8
0x22
0x11
0x31
0x5
0x27
0x0
0x21
0xc
-0x6
0x1b
-0x4
-0x26
0x1a
0x31
0x1d
0x2a
-0x10
-0x1c
0x22
0x14
0x0
~ ~ ~

0x19
0x2d
0x3
-0x2e
-0x2e
0x1d
0x21
0x1d
0x1a
-0x5
-0x24
0xc
0x2d
-0x32
0x0
-0x6
-0x27
0x23
0x1a
-0x23
-0x2a
0xe
-0x3
0x16
-0x2f
0xc
-0x11
-0x1f
-0x19
-0x23
-0x12
0xe
0x25
-0x8
-0x29
-0x32
-0x9
0x2
0xc
-0x27
-0x11
0x0
0x1b
0x1c
0x2d
-0x2c
0x1c
0x23
-0x21
0x2b
-0x4
0x17
-0x31
0x31
-0x7
-0x26
-0x2d
0x5
-0x15
0x1a
-0x2
-0x18
0x6
-0x2d
-0x4
0xf
0x0
0x11

-0x11
-0x23
0x2b
0x2d
-0x23
-0x8
0x1c
0x2f
0x22
-0x18
-0x2a
-0xd
0xe
-0x2d
-0x23
0x1b
-0xc
-0x13
-0x14
-0xe
0x14
0x1e
0xc
-0x24
-0x2f
-0x1b
-0x3
0x6
0x24
0x9
-0x10
0x24
-0x1b
0x7
-0x6
-0x5
0x5
0x2f
0x17
-0x30
-0x18
0x28
-0x4
-0x12
-0x13
0xe
0xf
0x1
0x18
-0x9
-0x32
0x12
0xf
0x1e
0x2c
0x9
0x13
0x21
0x29
-0x18
0x2b
0x30
-0x17
0x7
0x1c
0x8
-0x2
0x25

```
0x2a
-0x11
-0x6
0x24
0x16
0x1b
0x1f
-0x2f
-0x2b
0x0
0x1b
0x1e
0xc
-0xf
-0x13
-0x2a
-0x25
0x1f
-0xa
0x12
0x21
-0xf
0x11
0x19
-0x19
-0x5
0x21
-0xd
0x21
-0xa
0x2f
0x2f
-0xd
-0x20
0x1
0x1
-0x19
-0x21
0x10
0x11
0x4
```

```
In [5]: main('TC4.txt')
```

```
Warning: Invalid data at line 8:      'ABC'
'
Warning: Invalid data at line 21:     'ERR'
'
Warning: Invalid data at line 41:     'VAL'
Conversion Results:
Binary:
-0b100111
-0b100100
0b1000
0b100010
0b10001
0b110001
0b101
0b0
0b100001
0b1100
-0b110
0b11011
-0b100
-0b100110
0b11010
0b110001
```

```
0b110001
0b11101
0b101010
-0b10000
0b100010
0b10100
0b0
0b11001
0b101101
0b11
-0b101110
-0b101110
0b11101
0b100001
0b11101
0b11010
-0b101
-0b100100
0b1100
0b101101
-0b110010
0b0
-0b110
```

Hexadecimal:

```
-0x27
-0x24
0x8
0x22
0x11
0x31
0x5
0x0
0x21
0xc
-0x6
0x1b
-0x4
-0x26
0x1a
0x31
0x1d
0x2a
-0x10
0x22
0x14
0x0
0x19
0x2d
0x3
-0x2e
-0x2e
0x1d
0x21
0x1d
0x1a
-0x5
-0x24
0xc
0x2d
-0x32
0x0
-0x6
```

In [6]: `# pylint: disable=C0304`

Quality / [A01382039_A4](#) / pylint_test.ipynb 



SebastianAri A4

5 minutes ago



143 lines (143 loc) · 5.43 KB

Quality / [A01382039_A4](#) / pylint_test.ipynb

↑ Top

Preview

Code

Blame

Raw



```
In [1]: !pip install pylint
```

```
Collecting pylint
  Downloading pylint-3.0.3-py3-none-any.whl (510 kB)
    ----- 510.6/510.6 kB 7.0 MB/s eta 0:00:00
Requirement already satisfied: platformdirs>=2.2.0 in /usr/local/lib/python3.10/dist-packages (from pylint) (4.2.0)
Collecting astroid<=3.1.0-dev0,>=3.0.1 (from pylint)
  Downloading astroid-3.0.3-py3-none-any.whl (275 kB)
    ----- 275.2/275.2 kB 9.8 MB/s eta 0:00:00
Collecting isort!=5.13.0,<6,>=4.2.5 (from pylint)
  Downloading isort-5.13.2-py3-none-any.whl (92 kB)
    ----- 92.3/92.3 kB 8.5 MB/s eta 0:00:00
Collecting mccabe<0.8,>=0.6 (from pylint)
  Downloading mccabe-0.7.0-py2.py3-none-any.whl (7.3 kB)
Collecting tomlkit>=0.10.1 (from pylint)
  Downloading tomlkit-0.12.3-py3-none-any.whl (37 kB)
Collecting dill>=0.2 (from pylint)
  Downloading dill-0.3.8-py3-none-any.whl (116 kB)
    ----- 116.3/116.3 kB 12.7 MB/s eta 0:00:00
Requirement already satisfied: tomli>=1.1.0 in /usr/local/lib/python3.10/dist-packages (from pylint) (2.0.1)
Requirement already satisfied: typing-extensions>=4.0.0 in /usr/local/lib/python3.10/dist-packages (from astroid<=3.1.0-dev0,>=3.0.1->pylint) (4.9.0)
Installing collected packages: tomlkit, mccabe, isort, dill, astroid, pylint
Successfully installed astroid-3.0.3 dill-0.3.8 isort-5.13.2 mccabe-0.7.0 pylint-3.0.3 tomlkit-0.12.3
```

```
In [9]: !pylint computer_statistics.py
```

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

```
In [12]: !pylint convert_numbers.py
```

```
***** Module convert_numbers
convert_numbers.py:13:0: W0105: String statement has no effect (pointless-string-statement)

-----
Your code has been rated at 9.81/10 (previous run: 9.81/10, +0.00)
```

```
In [14]: !pylint wordcount.py
```

```
***** Module wordcount
wordcount.py:16:0: W0105: String statement has no effect (pointless-string-statement)

-----
Your code has been rated at 9.81/10 (previous run: 9.81/10, +0.00)
```