Christian Rasmussen CSC 212 Spring Semester May 14<sup>th</sup>, 2023 Final Exam – Take-home

### Part 1:

Words + Letter count (Some overlap among screenshots)

Longest word

```
FILE: Moveladap.cop DATE: May 14 2023
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```

# Histogram of word count frequency:

```
Histogram:
there are 1 words with 1 letters
there are 12 words with 3 letters
there are 12 words with 3 letters
there are 16 words with 4 letters
there are 11 words with 5 letters
there are 24 words with 6 letters
there are 13 words with 7 letters
there are 5 words with 8 letters
there are 10 words with 9 letters
there are 1 words with 10 letters
there are 2 words with 11 letters
there are 3 words with 12 letters
there are 0 words with 13 letters
there are 1 words with 14 letters
```

```
Words with less that 8 letters:
The words with less than eight characters are the following:
Called
Circus
Control
English
George
He
Jim
London
Russian
Secret
Service
Smiley
Soviet
Tailor
Testify
Tinker
a
affairs
                                                                                                                                                                 had
high
his
in
is
issues
                                                                                                                                                                 it
its
kill
killers
                                                                                                                                                                  know
known
                                                                                                                                                                  lead
living
                                                                                                                                                                  mole
   a affairs agent ahead an and as at back because begins behind by
                                                                                                                                                                  names
of
office
                                                                                                                                                                  old
                                                                                                                                                                  or
out
                                                                                                                                                                  past
person
pieces
                                                                                                                                                                  put
relay
rhyme
   by capture chief clues code days derived doesn't ended enough failure finds five forced friends from had
                                                                                                                                                                  secret
senior
                                                                                                                                                                 settle
so
step
that
the
                                                                                                                                                                  them
                                                                                                                                                                  to
torture
                                                                                                                                                                  up
want
                                                                                                                                                                  was
what
                                                                                                                                                                  which
Which
There are 90 different words which have less than 8 characters!
```

```
Words which start with an inputted letter (C in this case and not case sensitive)

The following are words beginning with the inputted letter C:
Called
Cambridge
Circus
Control
Czechoslovakia
capture
chief
childrens
clues
code
codecadeade
continues
  continues
```

# Words that contain an inputted letter (Also C in this case)

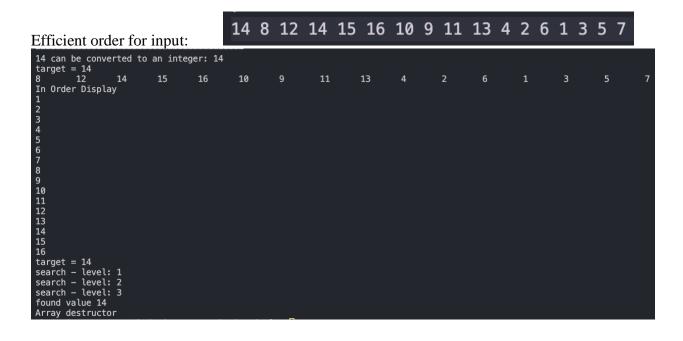
```
The following are words including the inputted letter C:
Called
Cambridge
Circus
Control
Czechoslovakia
Intelligence
Secret
Service
back
because
capture
chief
childrens
clues
code
codenamed
continues
discovering
forced
intelligence
office
officers
pieces
political
secret
suspected
which
```

# Capitalized words:

```
The following are words beginning with capital letters:
Called
Cambridge
Circus
Control
Czechoslovakia
English
George
He
Intelligence
Jim
London
Prideaux
Russian
Secret
Service
Smiley
Soviet
Tailor
Testify
Tinker
There are 20 capitilized words in the text!
```

Unique words: The total number of unique words are: 112

Part 2:



# nhlnopjikmdbfaceg

Character input example:

# Float input example:

8.5 12.5 14.5 15.5 16.5 10.5 9.5 11.5 13.5 4.5 2.5 6.5 1.5 3.5 5.5 7.5