### **JIUE3108 Introduction to Computing Using Python**

# **Homework 7**

Deadline: 2023.10.29 Midnight (SUN)

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### **HandWritten Notes are Back!**

- Read and summarize the textbook, not write down what is in the Slides.
- Avoid summarizing or copying content directly from the Slides.

### ! DO NOT BE LATE!



## [Q1] Two-Dimensional Lists Practice 1

- Calculate the multiplication tables (2x2 through 16x16) and:
  - Store the results in a 2D list.
  - Each multiplication table should be stored in one row.
  - Print the stored results.

```
[2, 4, 6, 8, 10, 12, 14, 16, 18, 20]
[3, 6, 9, 12, 15, 18, 21, 24, 27, 30]
[4, 8, 12, 16, 20, 24, 28, 32, 36, 40]
[5, 10, 15, 20, 25, 30, 35, 40, 45, 50]
[6, 12, 18, 24, 30, 36, 42, 48, 54, 60]
[7, 14, 21, 28, 35, 42, 49, 56, 63, 70]
[8, 16, 24, 32, 40, 48, 56, 64, 72, 80]
[9, 18, 27, 36, 45, 54, 63, 72, 81, 90]
[10, 20, 30, 40, 50, 60, 70, 80, 90, 100]
[11, 22, 33, 44, 55, 66, 77, 88, 99, 110]
[12, 24, 36, 48, 60, 72, 84, 96, 108, 120]
[13, 26, 39, 52, 65, 78, 91, 104, 117, 130]
[14, 28, 42, 56, 70, 84, 98, 112, 126, 140]
[15, 30, 45, 60, 75, 90, 105, 120, 135, 150]
[16, 32, 48, 64, 80, 96, 112, 128, 144, 160]
Done!
```

## [Q2] Height

- Read a file named 'num.txt'.
- Get the average by each line of the file.
- Print the averages.
- Close the file.



# [Q2 Answer] Height

```
All data = ['2056, 24, 5, 123, 51\n', '123, 67, 24, 1024, 31\n', '67, 2056, 24, 5, 123\n', '31, 24, 1024, 31, 1\n', '999, 67, 2056
['2056', ' 24', ' 5', ' 123', ' 51\n']
Average = 451.8
['123', ' 67', ' 24', ' 1024', ' 31\n']
Average = 253.8
['67', ' 2056', ' 24', ' 5', ' 123\n']
Average = 455.0
['31', '24', '1024', '31', '1\n']
Average = 222.2
['999', ' 67', ' 2056', ' 24', ' 5\n']
Average = 630.2
['1024', ' 67', ' 24', ' 1024', ' 31\n']
Average = 434.0
['5', ' 99', ' 67', ' 2056', ' 21\n']
Average = 449.6
['255', ' 256', ' 24', ' 5', ' 123\n']
Average = 132.6
['446', ' 31', ' 24', ' 1024', ' 31']
Average = 311.2
```



### [Q3] Words

- Read a file named 'youandme.txt'
- Generate a list consisting of each word in the each word.
- Close the file.

```
['I', 'love', 'you', 'and', 'me']
['Dancing', 'in', 'the', 'moonlight']
['Nobody', 'can', 'see']
["It's", 'just', 'you', 'and', 'me', 'tonight']
['I', 'love', 'you', 'and', 'me']
['Dancing', 'in', 'the', 'moonlight']
['Nobody', 'can', 'see']
["It's", 'just', 'you', 'and', 'me', 'tonight']
```



## [Q4] Count

#### python

- Read the file 'youandme.txt'.
- Count how many words are in each line.
- Store them in the list wordNumList.
- Close the file.

[5, 4, 3, 6, 5, 4, 3, 6]



### [Q5] Reverse

#### python

- Read the file 'youandme.txt'.
- Reverse every line and print it to output.
- Close the file.

em dna uoy evol I thgilnoom eht ni gnicnaD ees nac ydoboN thginot em dna uoy tsuj s'tI em dna uoy evol I thgilnoom eht ni gnicnaD ees nac ydoboN thginot em dna uoy tsuj s'tI



# [Q6] My trip to JIU

- Write your story to the 'MyTripToJIU.txt' file.
  - Why did you come to JIU?
  - What are the advantages and disadvantages of being here?
  - Would you recommend this place to students younger than you?
  - What is your most memorable episode?
  - If you could go back in time, would you choose this place?
- Read back 'MyTripToJIU.txt' and print the file contents.

