

Lab Overview

- Review lab 8
- Prep for lab 9

Writing Encodings to the File

- With functions, writing to the file became simpler
 - Called a function that returned a string
 - Could write that string to a file
- Additional code was essentially
 - 1) open file for writing
 - 2) write the encoding to the file
 - 3) close the file

Compare Palindrome Solutions (1)

```
def isPalindrome( possiblePal ):
    backwards=reverseString( possiblePal)

    stringReplace=possiblePal.replace(" ", "")
    backwardsReplace=backwards.replace(" ", "")

    stringLower=stringReplace.lower()
    backwardsLower=backwardsReplace.lower()

    if stringLower == backwardsLower:
        return True
    else:
        return False
```

Compare Palindrome Solutions (2)

```
def isPalindrome( possiblePal ):

    pPalReplace=possiblePal.replace(" ", "")
    pPalLower=pPalReplace.lower()

    backwards=reverseString(pPalLower)

    if pPalLower == backwards:
        return True
    else:
        return False
```

Compare Palindrome Solutions (2)

```
def isPalindrome( possiblePal ):
    backwards=reverseString( possiblePal)

    stringReplace=possiblePal.replace(" ", "")
    backwardsReplace=backwards.replace(" ", "")

    stringLower=stringReplace.lower()
    backwardsLower=backwardsReplace.lower()

    if stringLower == backwardsLower:
        return True
    else:
        return False
```

```
def isPalindrome( possiblePal ):
    pPalReplace=possiblePal.replace(" ", "")
    pPalLower=pPalReplace.lower()

    backwards=reverseString(pPalLower)

    if pPalLower == backwards:
        return True
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        return False
```

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Compare Palindrome Solutions (2)

```
def isPalindrome( possiblePal ):
    backwards=reverseString( possiblePal)

    stringReplace=possiblePal.replace(" ", "")
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    stringLower=stringReplace.lower()
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    if stringLower == backwardsLower:
        return True
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```

```
def isPalindrome( possiblePal ):
    pPalReplace=possiblePal.replace(" ", "")
    pPalLower=pPalReplace.lower()

    backwards=reverseString(pPalLower)

    if pPalLower == backwards:
        return True
    else:
        return False
```

This version is the preferred version. Why?

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Consider Palindrome Solution

```
def isPalindrome( possiblePal ):
    pPalReplace=possiblePal.replace(" ", "")
    pPalLower=pPalReplace.lower()
    backwards=reverseString(pPalLower)
    return pPalLower == backwards
```

What does this function do?

Consider Palindrome Solution

```
def main():
    guess = input("Enter a phrase: ")
    if isPalindrome(guess):
        print(guess, "is a palindrome.")
    else:
        print(guess, "is not a palindrome.")
```

```
def isPalindrome( possiblePal ):
    pPalReplace=possiblePal.replace(" ", "")
    pPalLower=pPalReplace.lower()
    backwards=reverseString(pPalLower)
    return pPalLower == backwards
```

Partial Gymnastics Code

```
def main():
    scores = getScoresFromFile(filename)
    avgDiffScore = scores.pop(0)
    avgExecScore = calculateAverageExecScore(scores)
    ...

def calculateAverageExecScore(listOfScores):
    listOfScores.sort()
    totalExecScore = sumList(listOfScores[1:-1])
    average = totalExecScore/len(listOfScores)-2
    return average

...
```

Returns and deletes first item in list

For space, no comments,
partial solution

Review: Dictionaries

- What is a dictionary?
- What are some things we can do with dictionaries?

Review: Exception Handling

- How can we handle exceptions, i.e., unexpected behavior?

Lab 9 Overview

- Creating modules
 - Share, reuse code more easily
- Exception handling
- Dictionaries to solve problems