

COMP 141

2-D Lists II



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Announcements

Reminder:

- Program 8 due Thursday, April 30th
- **Google Panel TODAY at 2pm**
 - 5 Google Engineers at different points in their career
 - Dr. Lang would like to have questions in advance (see Slack channel for the Google Forms link)
 - See Slack channel for the Google Meet link

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Final Exam Details

- Exam will be posted on Moodle at 8:30am on May 5th.
- Exam will be due by 11:55pm on May 6th
- Same idea as Midterm 2
 - Allocate 2.5 hours (plus extended time if accommodation)
 - Upload your Answer Sheet to Moodle when finished.
 - Open book, open notes
 - You may use a calculator.
 - You may NOT discuss the exam with anyone else.
 - You may NOT open IDLE/Python IDE and try out code during the exam.
- Tips for Success
 - You should study for the exam as you normally would before you take it.
 - You should keep the strings and lists reference sheets easily accessible during the exam.

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Quiz 9

```
def main():
    L = [1, 7, 3, 6, 2, 4]
    sums = []

    for i in range(1, len(L)):
        sums.append(L[i-1] + L[i])

    print(sums)

main()
```

Output
[8, 10, 9, 8, 6]

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2-D List Practice

Let's write a function `add_diagonal` that takes in a 2-D list and returns the total of the values on the upper-left to lower-right diagonal.

Example: `matrix = [[1, 3, 5], [2, 4, 6], [3, 6, 9]]`

For the matrix above, we want to return 14, since $1 + 4 + 9 = 14$

```
def add_diagonal(grid):
```

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