MTH 337, Sample Quiz 14
Fall 2020

You will have **15 minutes** to take the actual quiz in Gradescope. The quiz will start at the start of class, 9:10 AM, and will close at 9:30 AM.

1. Given the sudoku below, what are the potential values for the (3,4) entry?

```
·  2  5 ‖ ·  ·  7 ‖ ·  ·  4
·  ·  1 ‖ ·  ·  5 ‖ ·  2  ·
7  ·  · ‖ ·  2  · ‖ 5  ·  ·
═════════════════════════════
5  ·  9 ‖ ·  ·  4 ‖ 8  ·  ·
·  ·  · ‖ ·  ·  · ‖ ·  ·  ·
·  ·  7 ‖ 5  ·  · ‖ 6  ·  9
═════════════════════════════
·  ·  3 ‖ ·  7  · ‖ ·  ·  6
·  4  · ‖ 1  ·  · ‖ 7  ·  ·
8  ·  · ‖ 2  ·  · ‖ 9  1  ·
```

2. Write a function that will take a 9×9 sudoku array and a coordinate tuple as input and will return a list of the nonzero numbers in the square containing the tuple.

3. What is a potential difficulty in writing a function to produce a sudoku puzzle that can be solved using the methods of Project 8?