Names:	100 points total

CS 2123 Programming Project 3 Fall 2019

Assignment is due at 11:59pm on October 17. Submit a digital copy of the assignment on Harvey. You may submit a lateness coupon request BEFORE the assignment is due by sending an email to cs2123f19@googlegroups.com with Subject "CS2123 Project Lateness Coupon". All other late work will receive a 10 percentage point deduction per day (including weekends), No late work is accepted beyond five days after the assignment is due.

In the *classroom scheduling problem*, a number of classes must be assigned to the smallest number of rooms so that no two classes are scheduled at the same time in the same room. In particular, you should implement the following function according to its docstring:

Your code should be modular and follow a greedy strategy. In particular, to receive full credit your code should use a priority queue to efficiently select available rooms. Here is example output for invoking scheduleRooms with the variables cl1 and rm1 as shown in the starter code.

```
{1: ['c', 'd', 'f', 'i'], 2: ['b', 'g', 'j'], 3: ['a', 'e', 'h']}
```

You may download starter code from https://secon.utulsa.edu/cs2123/code/classroom_starter.py. Include output for all the function calls from within the if __name__=="__main__": block of the starter code.