

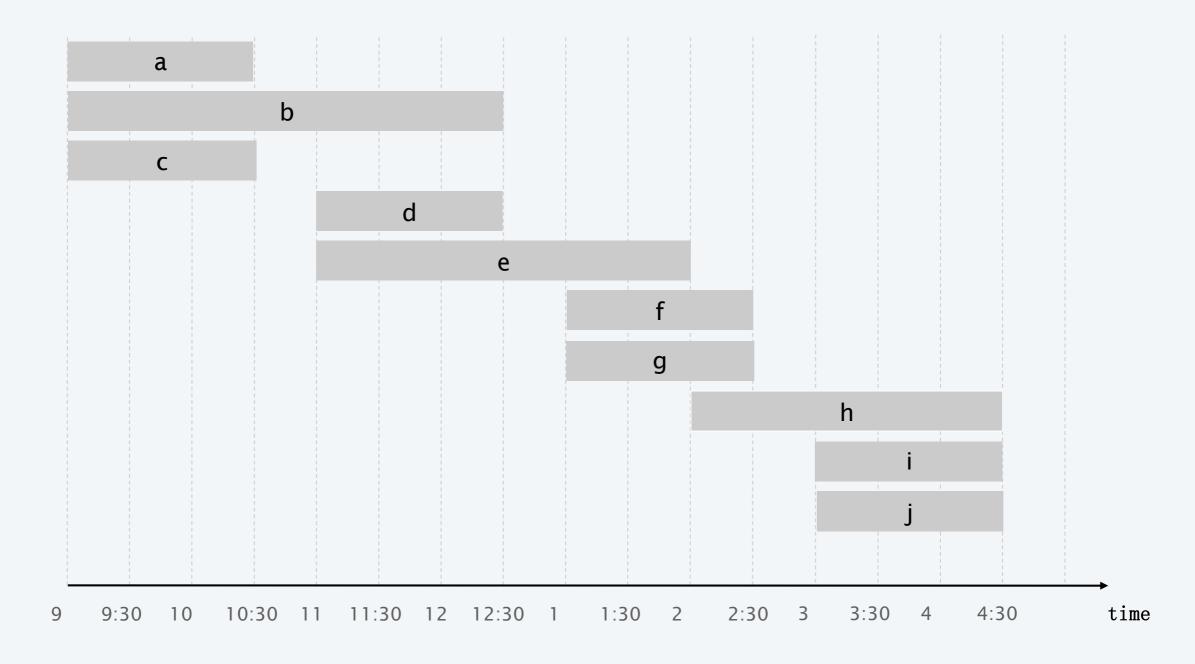
Lecture slides by Kevin Wayne
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http://www.cs.princeton.edu/~wayne/kleinberg-tardos

4. GREEDY ALGORITHMS I

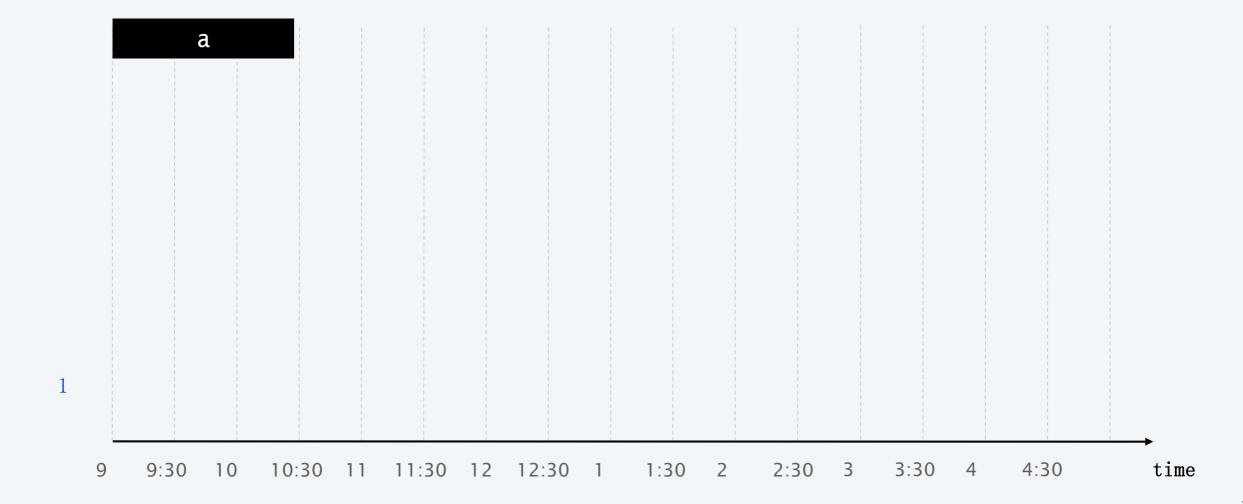
earliest-start-time-first algorithm demo

- Assign next lecture to any available classroom (if one exists).
- Otherwise, open up a new classroom.



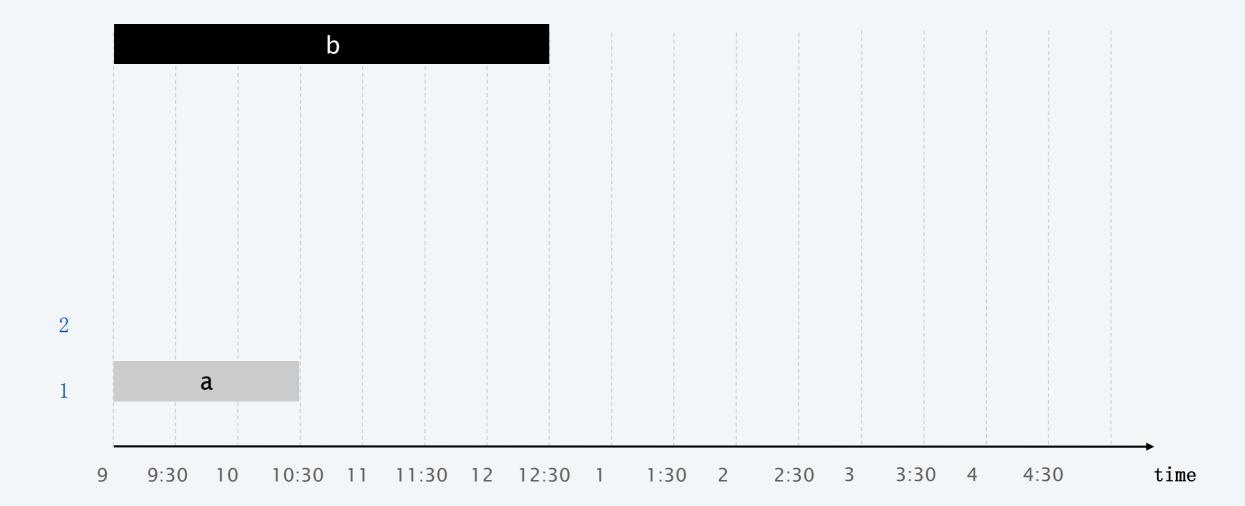
- Assign next lecture to any available classroom (if one exists).
- Otherwise, open up a new classroom.

no available classroom: open up a new classroom and assign lecture to it



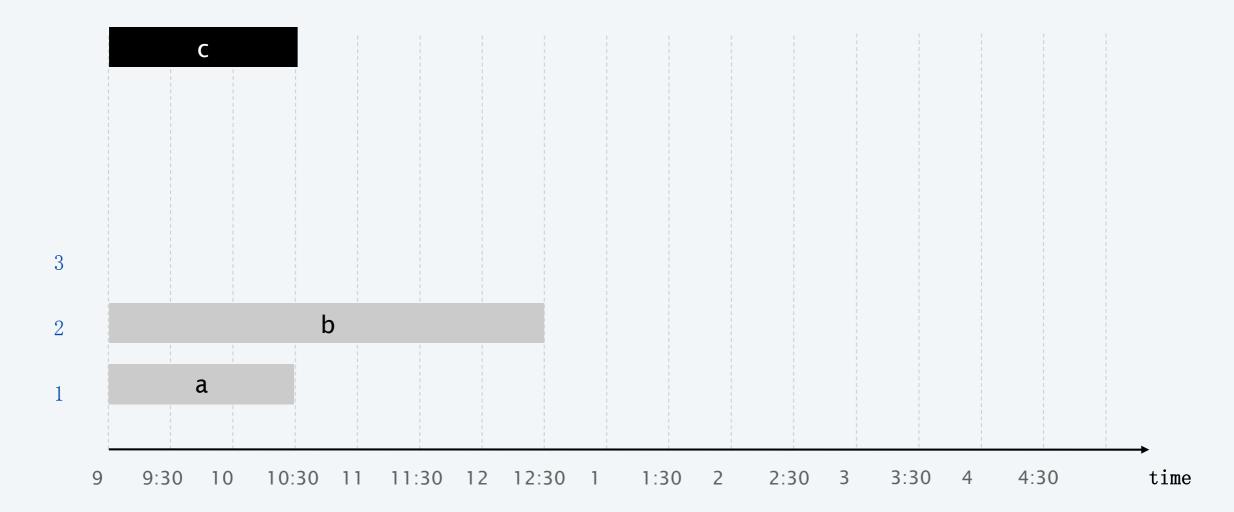
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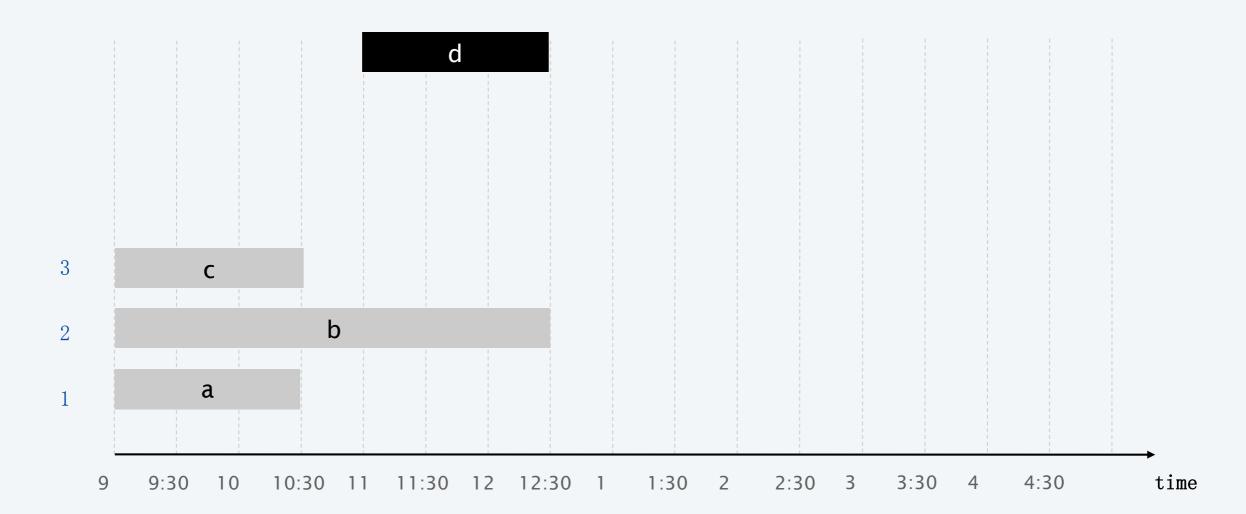
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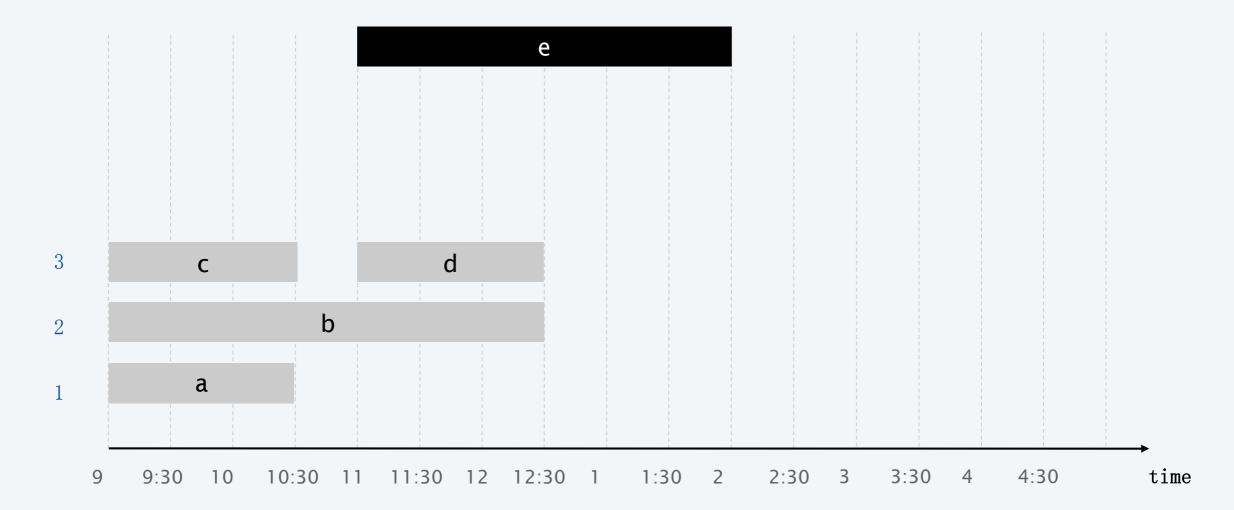
- Assign next lecture to any available classroom (if one exists).
- Otherwise, open up a new classroom.

lecture d is compatible with classrooms 1 and 3



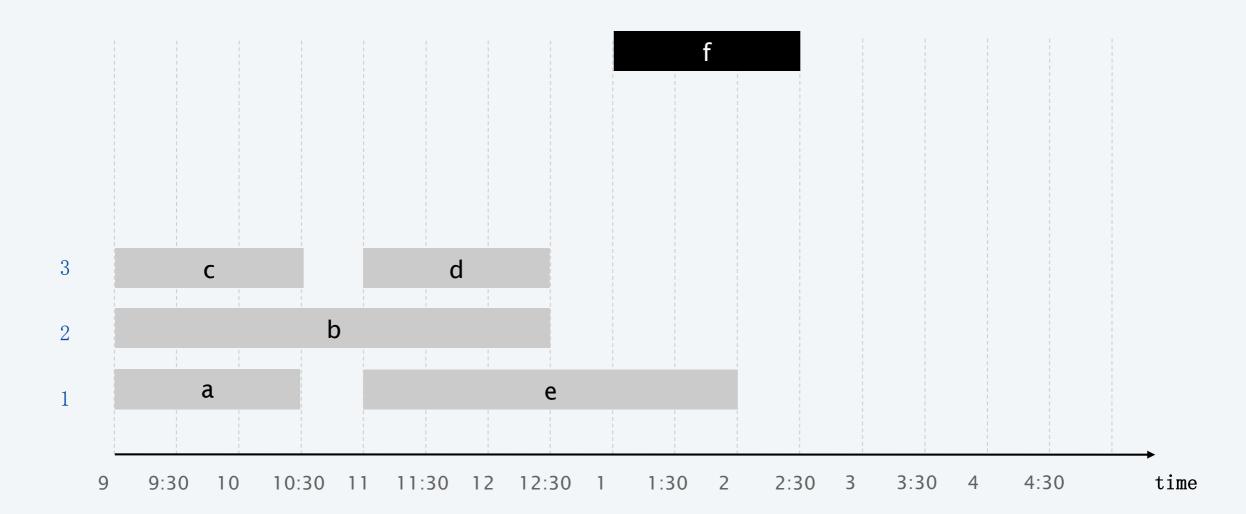
- Assign next lecture to any available classroom (if one exists).
- Otherwise, open up a new classroom.

lecture e is compatible with classroom 1



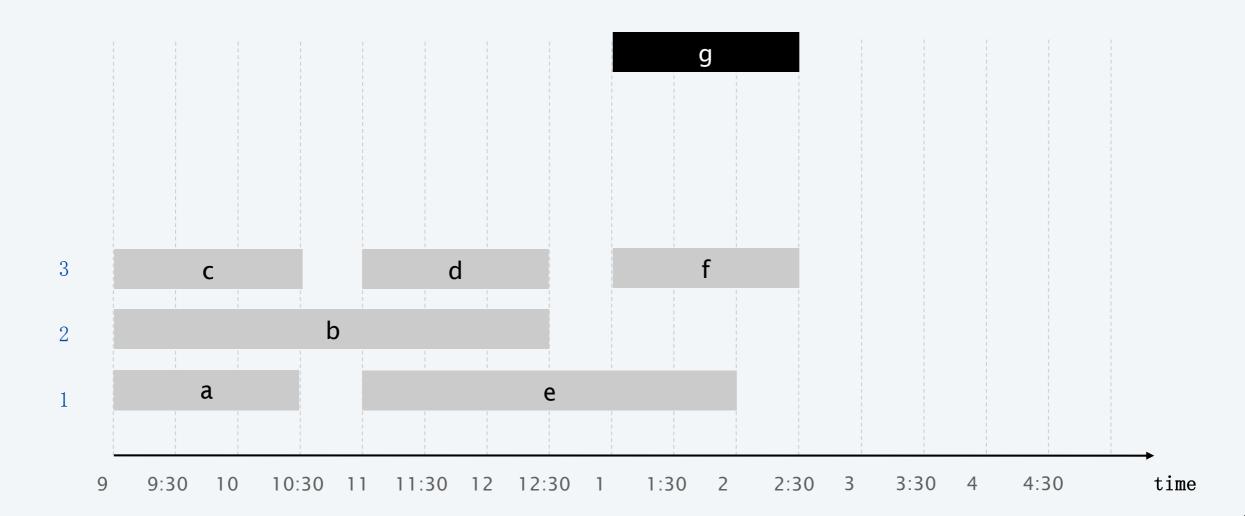
- Assign next lecture to any available classroom (if one exists).
- Otherwise, open up a new classroom.

lecture f is compatible with classroom 2 and 3



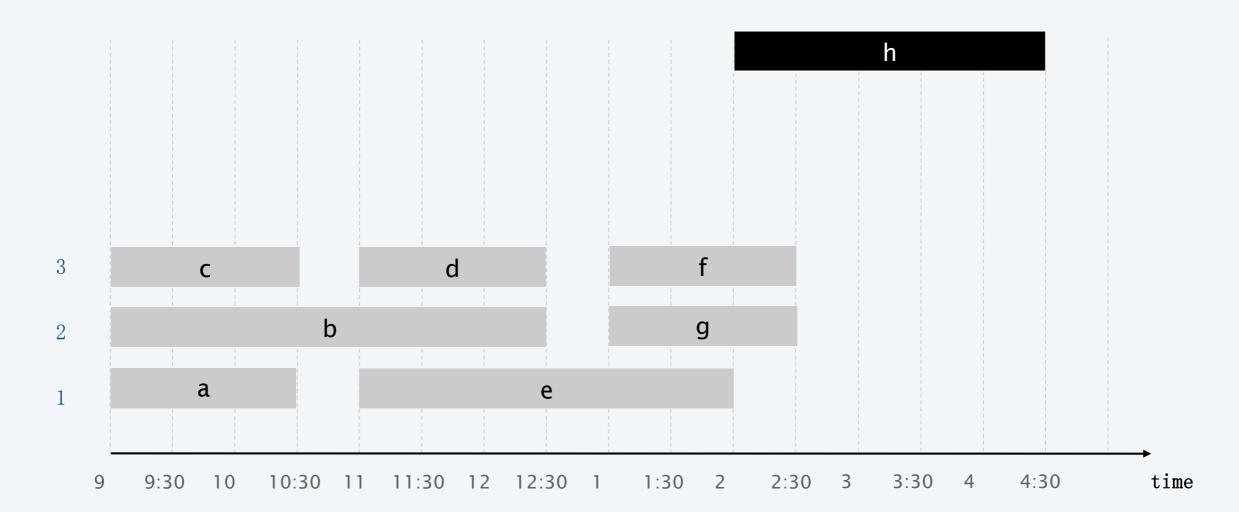
- Assign next lecture to any available classroom (if one exists).
- Otherwise, open up a new classroom.

lecture g is compatible with classroom 2



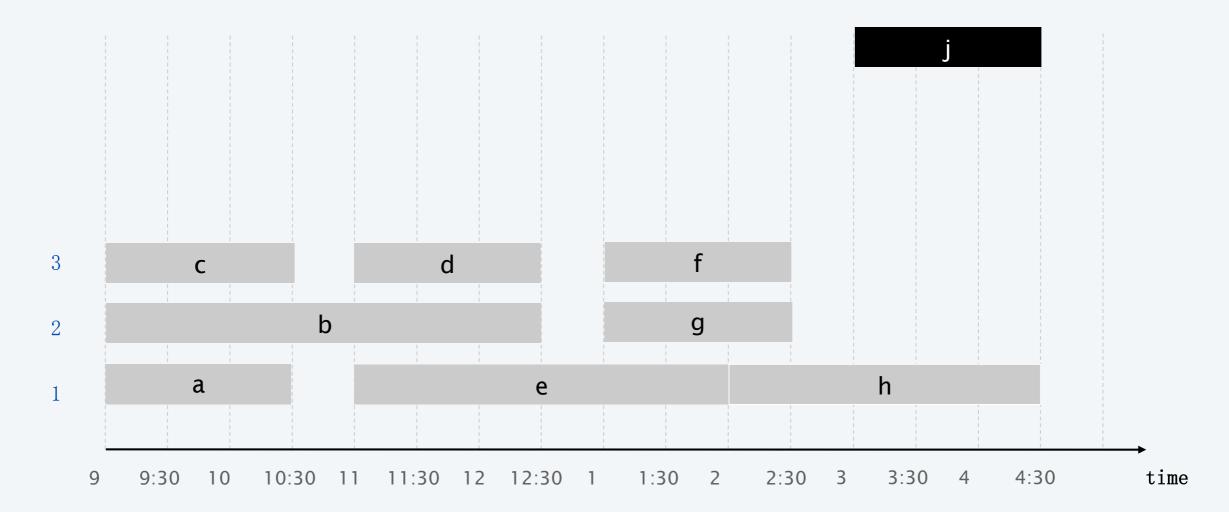
- Assign next lecture to any available classroom (if one exists).
- Otherwise, open up a new classroom.

lecture h is compatible with classroom 3



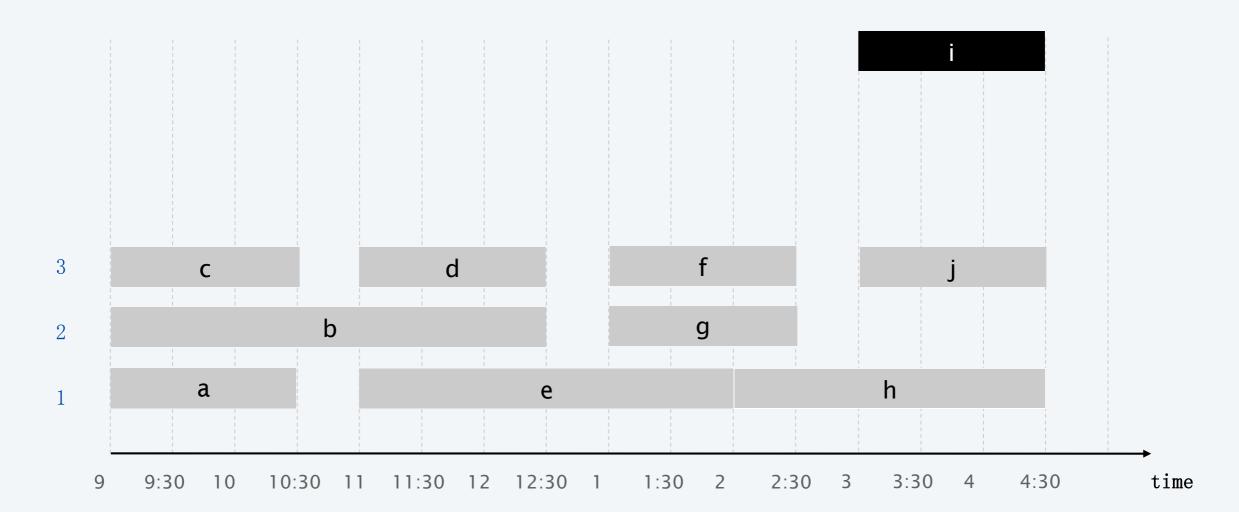
- Assign next lecture to any available classroom (if one exists).
- Otherwise, open up a new classroom.

lecture j is compatible with classrooms 2 and 3



- Assign next lecture to any available classroom (if one exists).
- Otherwise, open up a new classroom.

lecture i is compatible with classroom 2



- Assign next lecture to any available classroom (if one exists).
- Otherwise, open up a new classroom.

done

