Earliest-start-time-first algorithm demo

Consider lectures in order of start time:
- 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
Earliest-start-time-first algorithm demo

Consider lectures in order of start time:
- Assign next lecture to any available classroom (if one exists).
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1 a
2 b
c
3 d

Earliest-start-time-first algorithm demo

Consider lectures in order of start time:
- 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

1 a
2 b
c
d

Earliest-start-time-first algorithm demo

Consider lectures in order of start time:
- Assign next lecture to any available classroom (if one exists).
- Otherwise, open up a new classroom.

lecture e is compatible with classroom 1

1 a
2 b
c
d
e

Earliest-start-time-first algorithm demo

Consider lectures in order of start time:
- 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

1 a
2 b
c
d
f
e
Earliest-start-time-first algorithm demo

Consider lectures in order of start time:
  • Assign next lecture to any available classroom (if one exists).
  • Otherwise, open up a new classroom.

lecture g is compatible with classroom 2

lecture h is compatible with classroom 3

lecture j is compatible with classrooms 2 and 3

lecture i is compatible with classroom 2
Earliest-start-time-first algorithm demo

Consider lectures in order of start time:
- Assign next lecture to any available classroom (if one exists).
- Otherwise, open up a new classroom.

done