Conference Track Management

You are organizing the "Big Programming Conference" and have received many proposals which have passed the initial screening process but you're having trouble fitting them into the time constraints of the day -- there are so many possibilities! Since you are a programmer, you write a program to do it for you.

- 1. The conference has multiple tracks each of which has a morning and an afternoon session.
- 2. Each session contains multiple talks.
- 3. Each morning sessions begin at 9 am and must finish by 12 noon, for lunch.
- 4. All afternoon sessions begin at 1 pm and must finish in time for the networking event.
- 5. The networking event can start no earlier than 4:00 pm and no later than 5:00 pm. 6. For ease of parsing, you can assume that no talk title has numbers in it.
- 7. All talk lengths are specified either in minutes (not hours) or lightning (defaults to 5 minutes).
- 8. Presenters/attendees will be very punctual; there needs to be no gap between sessions.

Note that depending on how you choose to complete this problem, your solution may give a different ordering or combination of talks into tracks. This is acceptable; you don't need to exactly duplicate the sample output given here.

Sample input:

Writing Fast Tests Against Enterprise Rails 60min

Overdoing it in Python 45min

Lua for the Masses 30min

Ruby Errors from Mismatched Gem Versions 45min

Common Ruby Errors 45min

Rails for Python Developers lightning Communicating Over Distance 60min

Accounting-Driven Development 45min

Woah 30min

Sit Down and Write 30min

Pair Programming vs Noise 45min

Rails Magic 60min

Ruby on Rails: Why We Should Move On 60min Clojure Ate Scala (on my project) 45min

Programming in the Boondocks of Seattle 30min Ruby vs. Clojure for Back-End

Development 30min Ruby on Rails Legacy App Maintenance 60min

A World Without HackerNews 30min

User Interface CSS in Rails Apps 30min

Sample output:

Track 1:

09:00AM Writing Fast Tests Against Enterprise Rails 60min

10:00AM Overdoing it in Python 45min

10:45AM Lua for the Masses 30min

11:15AM Ruby Errors from Mismatched Gem Versions 45min

12:00PM Lunch

01:00PM Ruby on Rails: Why We Should Move On 60min

02:00PM Common Ruby Errors 45min

02:45PM Pair Programming vs Noise 45min

03:30PM Programming in the Boondocks of Seattle 30min

04:00PM Ruby vs. Clojure for Back-End Development 30min

04:30PM User Interface CSS in Rails Apps 30min

05:00PM Networking Event

Track 2:

09:00AM Communicating Over Distance 60min

10:00AM Rails Magic 60min

11:00AM Woah 30min

11:30AM Sit Down and Write 30min

12:00PM Lunch

01:00PM Accounting-Driven Development 45min

01:45PM Clojure Ate Scala (on my project) 45min

02:30PM A World Without HackerNews 30min

03:00PM Ruby on Rails Legacy App Maintenance 60min

04:00PM Rails for Python Developers lightning 05:00PM Networking Event