

## **Conference Track Management**

You are planning a big programming conference and have received many proposals which have passed the initial screen process but you're having trouble fitting them into the time constraints of the day -- there are so many possibilities! So you write a program to do it for you.

- The conference has multiple tracks each of which has a morning and afternoon session.
- Each session contains multiple talks.
- Morning sessions begin at 9am and must finish by 12 noon, for lunch.
- Afternoon sessions begin at 1pm and must finish in time for the networking event.
- The networking event can start no earlier than 4:00 and no later than 5:00.
- No talk title has numbers in it.
- All talk lengths are either in minutes (not hours) or lightning (5 minutes).
- Presenters 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.

### ***Test 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

### ***Test 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