

## Rideways Online Technical Test Process

We would like you to write code that satisfies the Conference Organisation problem outlined in the specification below. Your solution should demonstrate the following:

- Specification – you can understand, follow and come up with solutions to a problem domain given a specification
- Tested – you can demonstrate a solid test-driven approach
- Engineering Quality – you can demonstrate an ability to write clean, well structured and robust code.

### Requirements

- Language – code in the language of your choice though traditionally this would be in the predominant language for the role in which you are applying, so for example Java for a backend engineer role or Javascript for a frontend engineer role (though this doesn't have to be the case!)
- Github – we would like you to upload your code to a public Github repository where we may review the code
- Show your working – **please commit your code as you would normally** so not in one large chunk at the end. We would like to see how you work, your size of commits – essentially show how you work out the problem!
- Prove your solution – we should be able to prove that your code works. It should in some way generate the output that we are expecting so we can ensure it is properly working.

Any questions prior to starting the exercise please ask us!

Good luck!

### Problem Specification

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