

The Conference Agenda

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.

Here are some important details about this conference:

- The conference has multiple tracks each of which has a morning and afternoon session.
- Each session contains multiple talks.
- Morning sessions begin at 9 am and must finish by 12 noon, for lunch.
- Afternoon sessions begin at 1 pm and must finish by 5 pm for snacks.
- 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.

Input Format:

The first line will contain an integer N. N lines follow each will contain a string.

Output Format:

For each query output the solution to the problem. Refer to the sample output for further clarification.

Constraints:

$1 \leq N \leq 20$

Every string will contain a text initially (which may contain space) followed by time of completion in minutes at the end. Refer to sample input for further clarification.

Sample Input File	Sample Output
19 Writing Fast Tests Using Selenium 60min Overdoing it in Java 45min AngularJS for the Masses 30min Ruby Errors from Mismatched Gem Versions 45min Common Hibernate Errors 45min Rails for Java Developers lightning Face-to-Face Communication 60min Domain-Driven Development 45min What's New With Java 11 30min A Perfect Sprint Planning 30min Pair Programming vs Noise 45min Java Is Not 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 Ant vs. Maven vs. Gradle Build Tool for Back-End Development 30min Java Legacy App Maintenance 60min A World Without Clinical Trials 30min	Track 1: 09:00AM Writing Fast Tests Using Selenium 60min 10:00AM Ruby on Rails: Why We Should Move On 60min 11:00AM Face-to-Face Communication 60min 12:00PM Lunch 01:00PM Java Is Not Magic 60min 02:00PM Clojure Ate Scala (on my project) 45min 02:45PM Domain-Driven Development 45min 03:30PM Pair Programming vs Noise 45min 04:15PM User Interface CSS in AngularJS Apps 30min 04:45PM Rails for Java Developers lightning 04:50PM Networking Event Track 2: 09:00AM Java Legacy App Maintenance 60min 10:00AM Common Hibernate Errors 45min 10:45AM Ruby Errors from Mismatched Gem Versions 45min 11:30AM AngularJS for the Masses 30min 12:00PM Lunch 01:00PM Overdoing it in Java 45min 01:45PM What's new with Java 11 30min

User Interface CSS in AngularJS Apps 30min	02:15PM A Perfect Sprint Planning 30min 02:45PM Programming in the Boondocks of Seattle 30min 03:15PM Ant vs. Maven vs. Gradle Build Tool for Back-End Development 30min 03:45PM A World Without HackerNews 30min 04:15PM Networking Event
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- Please, write the solution using Java language and send us back a zip file containing the solution or a GitHub URL where we can find your code.
- A small description of how to run your code will be appreciated as well :)