

Welcome to the coding challenge portion of the interview. Below is a problem we would like for you to solve in C#. Please refrain from using external 3rd party libraries to solve the problem (standard System/.NET libraries and JSON parsing libraries are fine though). You may use libraries for automated testing. Submit your uncompiled source code for review, including any tests you may have written. Please do NOT provide any executables, we will be building and compiling the code ourselves. Feel free to make assumptions as needed but do list them in a Readme. Thanks!

Hello! Our team area is too quiet. We'd like to listen to some music. Each team member has selected their favorite tracks and are providing them to you. We have two half hour sections of the day to fill with music. Not all team members are present for both thirty-minute sections and we do not want to play their music if they aren't in the team area.

Having a period of time at the end of a section where no music is playing is acceptable, but we would prefer hearing another song if it would fit. Outside of each 30-minute section, our team area needs to be quiet. Each section is an independent list that doesn't impact any other section.

- There is no priority or order between the team members.
- Play a song from each person before another song from the same person.
- Songs should not be scheduled if they will not finish playing within the 30 minute time boundary.
- Do not play songs from people who are not present during that time section.
- Input will be song name and artist, duration (M:SS), and contain the name of the person who added the song.
- You are provided with a file for the input that your solution should consume.
- Display the output in the console.
- We are looking for clean, easy to maintain, production quality code. A simple solution that runs properly is preferred over a complicated gold-plated solution.
- Feel free to pull in external libraries to help with testing.

**Expected output format (may not be your actual result):**

The first 30 minutes will be:

1. When I Come Around - Green Day
2. Out of My Head - Fastball
3. Last Nite - The Strokes
4. Otherside - Red Hot Chili Peppers
5. Cumbersome - Seven Mary Three
6. Lydia - Highly Suspect
7. Good - Better Than Ezra
8. Big Me - Foo Fighters

The final 30 minutes will be:

1. Low - Cracker
2. Bleed American - Jimmy Eat World
3. Fluorescent Adolescent - Arctic Monkeys
4. Creep - Stone Temple Pilots
5. Steady as She Goes - The Raconteurs
6. Come As You Are - Nirvana
7. Big Me - Foo Fighters