Typically takes 30 minutes/1 hour total:

A quick coding question:

Write a method that returns the "pivot" index of a list of integers. We define the pivot index as the index where the sum of the numbers on the left is equal to the sum of the numbers on the right. Given [1, 4, 6, 3, 2], the method should return 2, since the sum of the numbers to the left of index 2 is equal to the sum of numbers to the right of index 2 (1 + 4 = 3 + 2). If no such index exists, it should return -1. If there are multiple pivots, you can return the left-most pivot.

You can write the method in any language. Make sure that the method:

   • runs successfully

   • handles all edge cases

   • is as efficient as you can make it!

A successful answer will fulfill the above criteria.

Front-end exercise:

Use HTML, JavaScript, and CSS to create a simple typing game.

Requirements:

     • Random letters appear in a containing <div> element, 1000px wide, at an interval of 1 second.

     • Every 100 milliseconds, all the existing letters move right by 10px.

     • Pressing a correct letter removes the oldest instance of that letter, and increases the score by 1 point.

     • Pressing a letter that isn't on the page decreases the score by 1 point.

     • Pressing Escape ends the game.

     • If a letter gets all the way to the right-hand side of the container, the game is over.

     • For every 20 letters that have been found, the interval of letter creation decreases by 10%.

Tools:

     • Use any JavaScript libraries you like.

     • Provide a single HTML file and your supporting .js and .css files.

     • If you use a CSS preprocessor (SASS, LESS, etc.) please include your source files also.