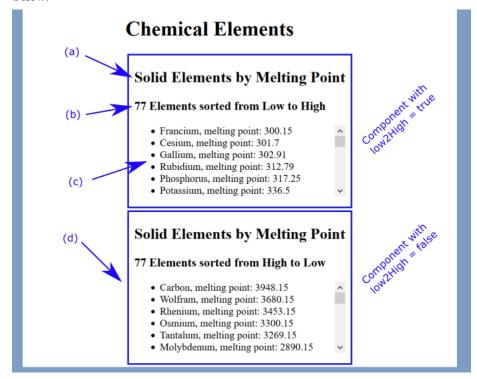
Question 2 "Solids by Melting Point" (25 pts, Variant C)

You are developing a component for a React based App for a CSU East Bay chemistry course. The index.html, index.js, and styling (question1.css) files have been completed for you. You just need to develop the React component.

You are provided with the following files:

- An index.html. This cannot be modified.
- A index.js file containing the main React App. This cannot be modified. Your component must be compatible with this file, i.e., this file will be importing and using your component.
- A question1.css CSS file that contains all the CSS for the site. This cannot be modified.
- A elements.json file which contains information about the chemical elements. This cannot be modified or imported into your components.

You will deliver to me one JavaScript file for a "Solids by Melting Point" React component you will create. This file must implement the functionality described below. A screenshot of the finished App with annotations (in blue) is shown below.



(a) Create Files and Base Functional Component (5 pts)

- Create a JavaScript file for the component compatible with that imported in the index.js file.
- Creating the appropriately named (compatible with index.js) React functional component in this file.
- Return a <section> with an <h2> with "Solid Elements by Melting Point" from the component.

(b) Filter by solid phase (5 pts)

- Extract only the elements with the *phase* of *solid* from the chemical elements passed to your component.
- Have your component list the number of normally 'solid' phase elements as shown in the screenshot use an <h3> element for this information.

(c) "Solids by Melting Point" Sorted Low to High Functionality (10 pts)

You will now give your "Solids by Melting Point" component the following additional functionality:

- Sort the solids in order of increasing "Melting Point"
- Display an unordered list
 of solids as shown in the screenshot

(d) "Solids by Melting Point" High to Low via Props Functionality (5 pts)

• Have your component pay attention to the *low2High* property. When it is *false* have the component sort in the reverse order from part (b) and display as shown in the lower half of the screenshot.