Congratulations! You passed! Go to next item Latest Submission To pass 80% or received 100% Grade 100% higher You increased your skill scores! Your score: **219** (19) Intermediate Computer Programming Web Development Well done! At an intermediate level, you have a solid understanding Your score: **266** (↑7) Intermediate of the material and are able to pass intermediate content. You can Well done! At an intermediate level, you have a solid understanding apply key concepts on most tasks. of the material and are able to pass intermediate content. You can apply key concepts on most tasks.

1. What are some of the features of component containment? Select all that apply. 1/1 point The fact that some components don't know their children ahead of time. ✓ Correct Correct, they leverage the children prop. A component that acts as a generic box. **⊘** Correct Correct, like a Dialog or Alert. ☐ A special case of other components. A component that uses the children prop to pass children elements directly as their content. Correct, all the content of the generic box is provided via the children prop. 2. What are the props that all components have by default? Select all that apply. 1/1 point children O render O type **⊘** Correct Correct, all components have an implicit children prop. 3. What is a React Element? Select all that apply. 1/1 point An intermediary representation that describes a component instance. $Correct, JSX\ gets\ transformed\ into\ that\ intermediary\ representation\ that\ is\ a\ descriptive\ object.$ A JavaScript object that represents the final HTML output. **⊘** Correct Correct, they represent what the UI should look like. $\hfill \square$ A React Component that represents a simple DOM node, like a button. 4. Assuming you have the below component, what are all the features implemented from component composition 1/1 point with children?

-	wer	
10		
11);	
12	}	

- Component specialization and component containment.
- O Component containment.
- O Component specialization.
- **⊘** Correct

Correct, **ConfirmationDialog** is a special case of **Dialog** and the **Dialog** is an example of a generic box (containment) that uses children to lay out the content.

5. What are some of the use cases that the React.cloneElement API allows you to achieve? Select all that apply.

1/1 point

- Extend the functionality of children components.
- **⊘** Correct

That's correct. The ${\tt React.cloneElement}$ API allows you to extend the functionality of children components.

Add to children properties.

✓ Correct

That's correct. The React.cloneElement API allows you to add to children's properties.

Modify children's properties.

⊘ Correct

That's correct. The ${\tt React.cloneElement}$ API allows you to modify children's properties.

6. Assuming you have the following Row component that uses React.Children.map to perform some dynamic transformation in each child element, in order to add some custom styles, what's wrong about its implementation? Select all that apply.

1/1 point

```
marginLeft: `${spacing}px`,
6
       return(
         <div className="Row">
           {React.Children.map(children, (child, index) => {
             child.props.style = {
10
              ...child.props.style,
11
               \dots(index > 0 ? childStyle : {}),
12
13
14
             return child;
15
           })}
16
         </div>
17
       );
     };
18
```

- O You can't use the spread operator in the style prop.
- Each child is being mutated.
- O Each child is missing a key, causing potential problems if the list order changes.
- **⊘** Correct

Correct, props are being mutated and that is a React breaking rule. You should use **React.cloneElement** to create a copy of the elements first.

7. Assuming you have the following set of components, what would be logged into the console when clicking the Submit button that gets rendered on the screen? 1/1 point

	<pre>20 return <mybutton =="" onclick="{()"> console.log("AppClick")}>Submit</mybutton>; 21 }</pre>	
	<pre></pre>	
	Correct, due to the order of the spread operator in the different components, the original onclick prop passed to MyButton takes precedence.	
8.	Among the below options, what are valid solutions to encapsulate cross-cutting concerns? Select all that apply Custom hooks. Correct	1/1 point
	Correct, that's one possible abstraction. Render props pattern.	
	Correct Correct, that's one possible abstraction. Components that consume context.	
	✓ Higher order components. ✓ Correct Correct, that's one possible abstraction.	
9.	What does the screen utility object from react-testing-library represent when performing queries against it? Your laptop screen The whole virtual DOM The whole page or root document	1/1 point
	Correct That's correct, the screen utility object from react-testing-library represents the root document when performing queries against it.	
10.	When writing tests with Jest and react-testing-library, what matcher would you have to use to assert that a button is disabled?	1 / 1 point
	toHaveAttribute toHaveBeenCalled toBeInTheDocument	
	○ Correct That's correct, When writing tests with Jest and react-testing-library, you would use toHaveAttribute to assert that a button is disabled.	