

✔ Congratulations! You passed!

Grade received 100% To pass 80% or higher

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1. Imagine you have an array with one object that represents a dessert. You would like to apply some transformation to the item to output a different structure using the `map` function as per the code below. What would be the value of the `newDesserts` variable?

1 / 1 point

```
1  const desserts = [  
2    {  
3      title: 'Chocolate Cake',  
4      description: 'Chocolate cake is a cake flavored with melted chocolate',  
5      calories: 500,  
6    }  
7  ];  
8  
9  const newDesserts = desserts.map((dessert) => {  
10    return {  
11      title: dessert.title.toUpperCase(),  
12      ...dessert,  
13      kCal: dessert.calories / 1000,  
14    };  
15  });
```

☐

```
1  [{  
2    {  
3      title: 'CHOCOLATE CAKE',  
4      description: 'Chocolate cake is a cake flavored with melted chocolate',  
5      kCal: 0.5,  
6    }  
7  ]
```

☒

```
1  [{  
2    {  
3      title: 'Chocolate Cake',  
4      description: 'Chocolate cake is a cake flavored with melted chocolate',  
5      calories: 500,  
6      kCal: 0.5,  
7    }  
8  ]
```

☐

```
1  [{  
2    {  
3      title: 'CHOCOLATE CAKE',  
4      description: 'Chocolate cake is a cake flavored with melted chocolate',  
5      calories: 500,  
6      kCal: 0.5,  
7    }  
8  ]
```

✔ **Correct**

That's correct, since the mapping output merges the previous object values after the `title` is re-defined, it has no effect and the `title` is still as before. Also, a new property is introduced, `kCal`.

2. How do you access dynamic data inside the JSX from the `render` function?

1 / 1 point

- ☐ Using local state in the component.
- ☐ Using component props.
- ☒ Wrapping the variable in question with curly braces.

✓ Correct

That's correct, that's the way to access dynamic data in JSX.

3. What could be a potential problem of using a randomiser function that generates an integer number from 0 to 10 as a key for your list items, having a list of only eight items? Select all that apply

1 / 1 point

- ☒ The randomiser function does not entirely guarantee that the keys it generates will be different per item and a collision could happen, having two items with the same integer as keys.

✓ Correct

That's correct, since each value generated from the randomiser function is independent of the other, you could have key duplications.

- ☒ There is no persistence of the keys generated since the moment the component re-renders the keys will vary and that could cause unexpected UI changes.

✓ Correct

That's correct, when a re-render occurs, the randomiser could generate a different value per list item and that could cause issues with the internal state of the component.

- ☐ The randomiser function is a potential performance bottleneck since it has to run every re-render and it's an unnecessary computation.

4. The `todos` array contains a list of `todo` objects, where each object has an `id` property that is unique. Which of the following code snippets will throw a React warning when opening up the browser console? Select all that apply

1 / 1 point

- ☒

```
1 {todos.map((todo, index) => (  
2   <ToDo id={todo.id} />  
3 ))}
```

✓ Correct

That's correct, since a key per list item is missing, React will throw a warning in the console.

- ☐

```
1 {todos.map((todo, index) => (  
2   <ToDo key={index} id={todo.id} />  
3 ))}
```

- ☐

```
1 {todos.map((todo, index) => (  
2   <ToDo key={todo.id} id={todo.id} />  
3 ))}
```

- ☒

```
1 {todos.map((todo, index) => (  
2   <ToDo key="myKey" id={todo.id} />  
3 ))}
```

✓ Correct

That's correct, the keys are all the same for all items and React will throw a warning in the console regarding that problem.

5. What are the potential problems of using indexes as keys?

1 / 1 point

- ☒ If the order of items may change, that can negatively impact performance and may cause issues with component state.
- ☐ An index is not guaranteed to be unique.
- ☐ The index is not persisted and will change the moment the component re-renders.



Correct

That's correct, indexes are discouraged when the order of the items may change.