

Which of the following is true about the useState hook? Select all that apply.

- The useState hook's return value in React is the array data structure.
 - The invocation of the useState hook returns an array.
- The useState hook allows you to work with state in components.
 - The useState hook is used to work with state in a React component.
- The useState hook invocation returns a two-member array.
 - When calling the useState() hook, the returned array holds the state variable's value as the first item of that array and the function that will be used to update the state as the second item of that returned array.
- When using the useState hook, you must use the state-updating function to update state.
 - There is only one correct way to update state when using useState and that's through the state-updating function.

You can use an object with multiple properties as the initial value of the state variable.

True. Just like the formData state variable in the example, where the useState hook was invoked with the object containing two properties (the goal property and the by property).

True or False: A pure function will perform a side effect.

False. While a pure function has no side effects, an impure function will perform a side effect.

How should you add a side effect functionality in React?

Using the useEffect hook

The correct way to add a side effect functionality is to use the useEffect function.

Is this code using a valid invocation of a hook?

```
if (data !== "") {  
  useEffect( () => {  
    setData('test data')  
  })  
}
```

No. The useEffect hook has been used inside the If conditional statement, and that makes the use of the hook in this code invalid.

Which of the below statements is an accurate description of JavaScript utilizing the fetch function?

When JavaScript uses the fetch function it is delegating duties to an external API so that it can continue its process.

This is known as asynchronous JavaScript.

The fetch function utilizes external APIs to perform tasks that would be cumbersome for JavaScript to fulfil alone.

Which of the statements below best describes how the fetchData function is working?

The fetchData function is initially fetching data from the random user.me API, next it retrieves a response from the API in JSON format, and finally updates the state variable with the returned data.

Which of the following statements is true about the useReducer hook?

The useReducer hook starts with an initial state and reducer function.

What is the data type of the returned value from the useRef hook invocation?

An object.