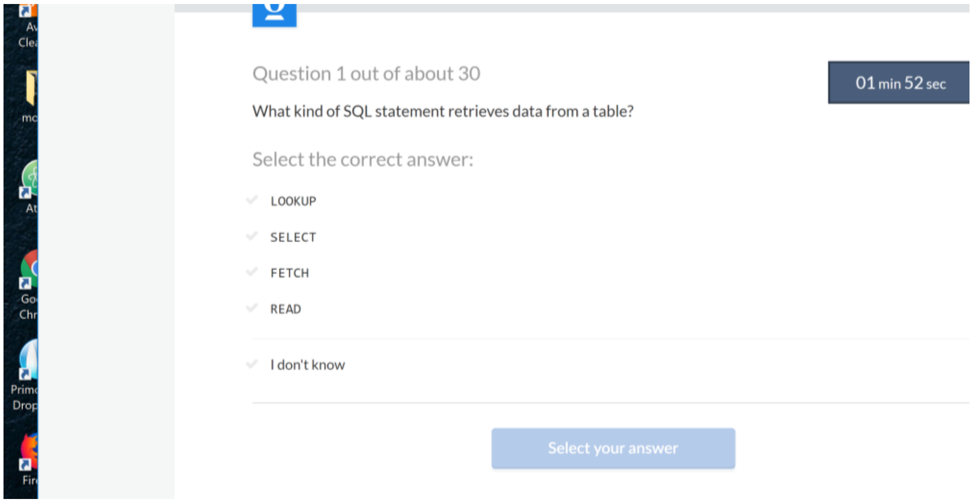


Question 1 out of about 30

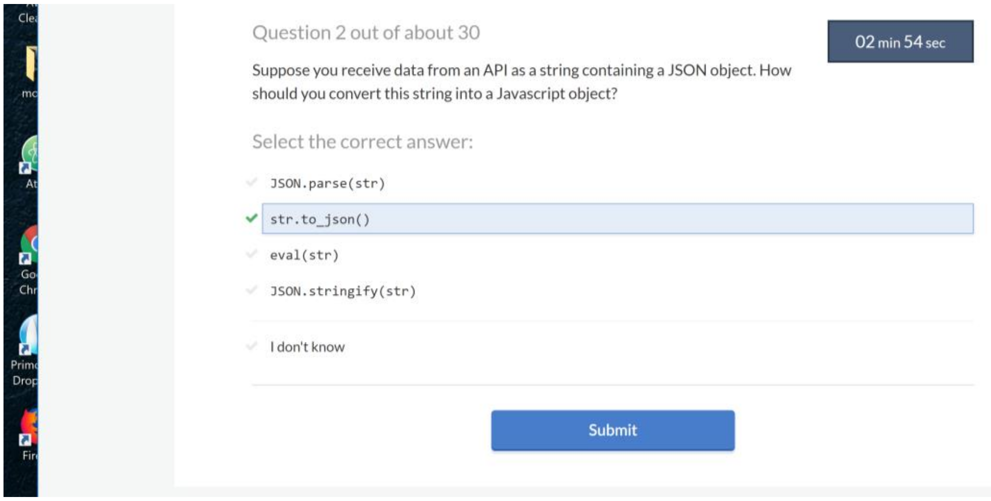
01 min 52 sec

What kind of SQL statement retrieves data from a table?

Select the correct answer:

- `LOOKUP`
- `SELECT`
- `FETCH`
- `READ`

- I don't know



Question 2 out of about 30

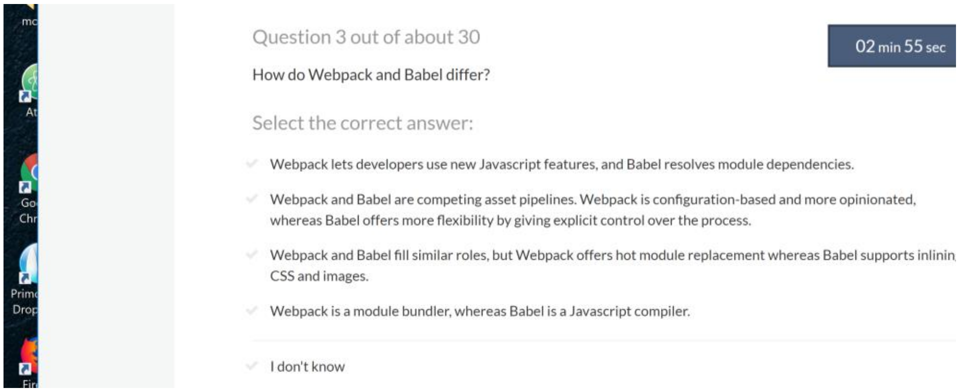
02 min 54 sec

Suppose you receive data from an API as a string containing a JSON object. How should you convert this string into a Javascript object?

Select the correct answer:

- `JSON.parse(str)`
- [✓ `str.to_json()`]
- `eval(str)`
- `JSON.stringify(str)`

- I don't know



Question 3 out of about 30

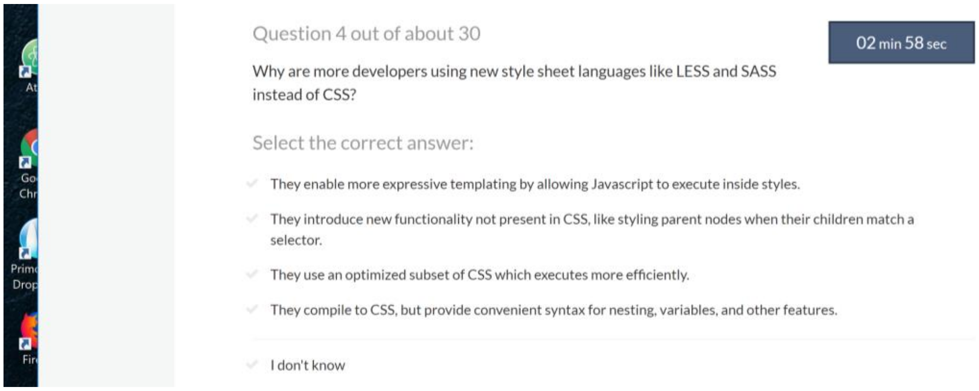
02 min 55 sec

How do Webpack and Babel differ?

Select the correct answer:

- Webpack lets developers use new Javascript features, and Babel resolves module dependencies.
- Webpack and Babel are competing asset pipelines. Webpack is configuration-based and more opinionated, whereas Babel offers more flexibility by giving explicit control over the process.
- Webpack and Babel fill similar roles, but Webpack offers hot module replacement whereas Babel supports inlinin CSS and images.
- Webpack is a module bundler, whereas Babel is a Javascript compiler.

- I don't know



Question 4 out of about 30

02 min 58 sec

Why are more developers using new style sheet languages like LESS and SASS instead of CSS?

Select the correct answer:

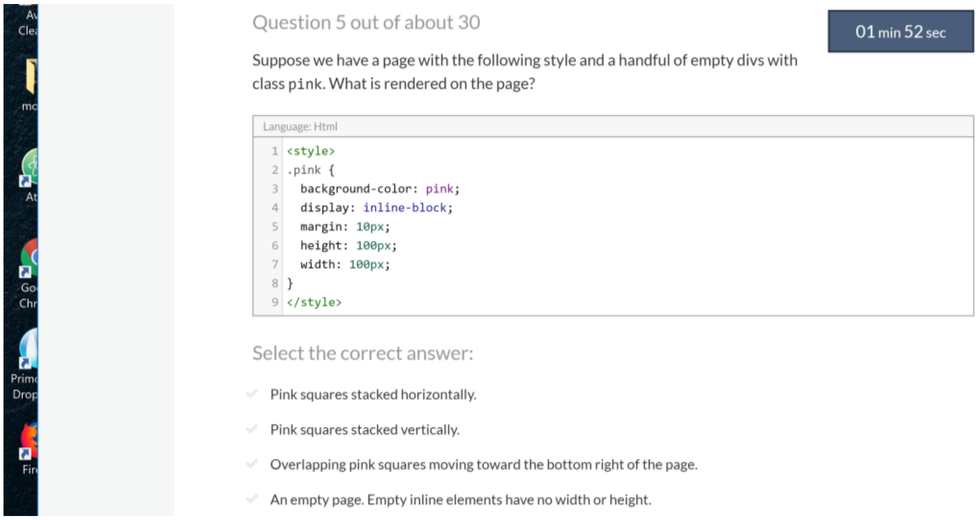
✓ They enable more expressive templating by allowing Javascript to execute inside styles.

✓ They introduce new functionality not present in CSS, like styling parent nodes when their children match a selector.

✓ They use an optimized subset of CSS which executes more efficiently.

✓ They compile to CSS, but provide convenient syntax for nesting, variables, and other features.

✓ I don't know



Question 5 out of about 30

01 min 52 sec

Suppose we have a page with the following style and a handful of empty divs with class `pink`. What is rendered on the page?

Language: Html

```html
<style>
.pink {
  background-color: pink;
  display: inline-block;
  margin: 10px;
  height: 100px;
  width: 100px;
}
</style>
```

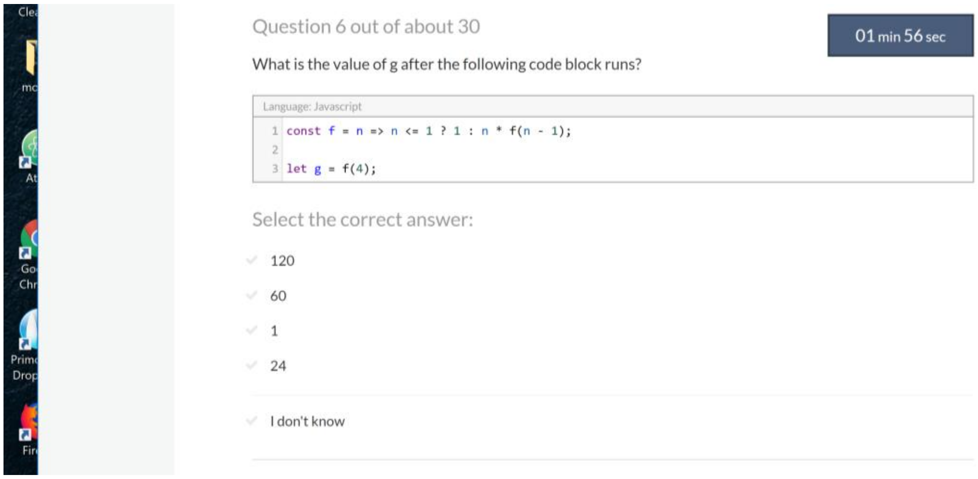
Select the correct answer:

✓ Pink squares stacked horizontally.

✓ Pink squares stacked vertically.

✓ Overlapping pink squares moving toward the bottom right of the page.

✓ An empty page. Empty inline elements have no width or height.



Question 6 out of about 30

01 min 56 sec

What is the value of g after the following code block runs?

Language: Javascript

```javascript
const f = n => n <= 1 ? 1 : n * f(n - 1);

let g = f(4);
```

Select the correct answer:

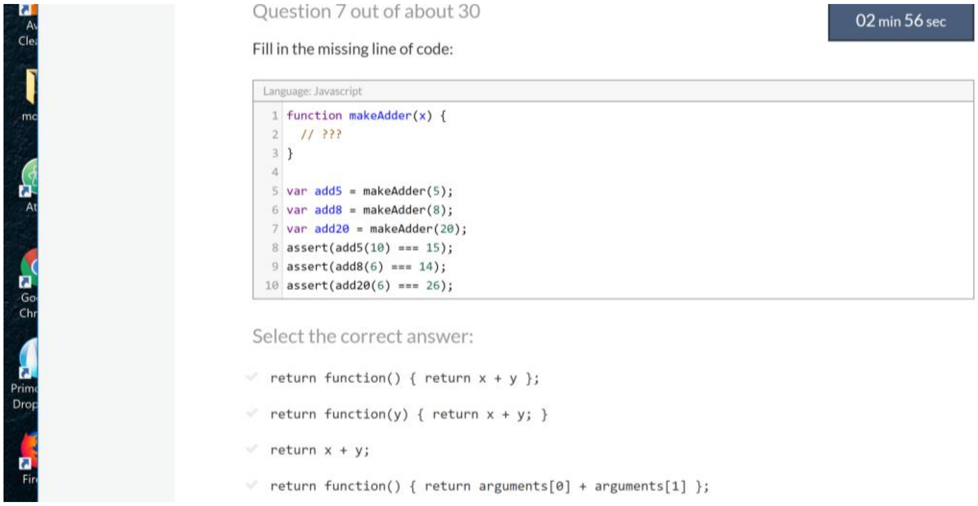
✓ 120

✓ 60

✓ 1

✓ 24

✓ I don't know



Question 7 out of about 30

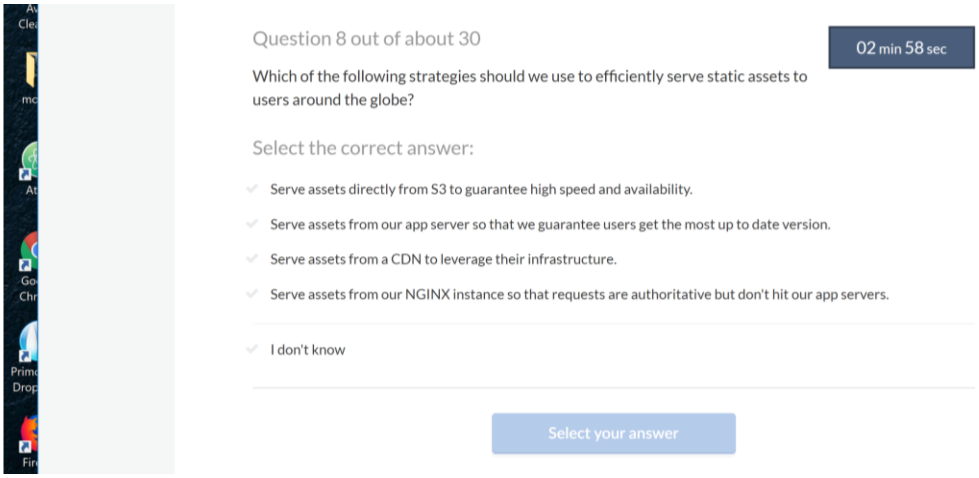
Fill in the missing line of code:

Language: Javascript

```javascript
function makeAdder(x) {
  // ???
}

var add5 = makeAdder(5);
var add8 = makeAdder(8);
var add20 = makeAdder(20);
assert(add5(10) === 15);
assert(add8(6) === 14);
assert(add20(6) === 26);
```

Select the correct answer:

- `return function() { return x + y };`
- `return function(y) { return x + y; }`
- `return x + y;`
- `return function() { return arguments[0] + arguments[1] };`

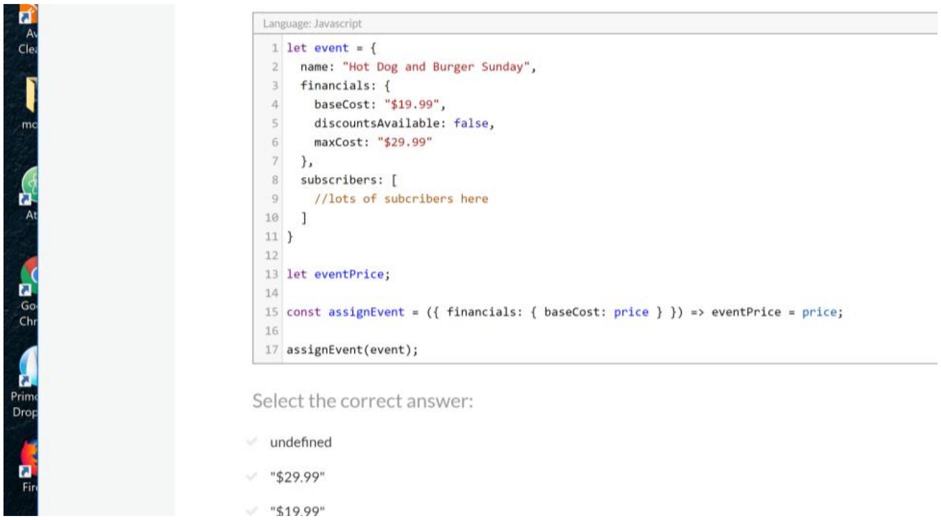


Question 8 out of about 30

Which of the following strategies should we use to efficiently serve static assets to users around the globe?

Select the correct answer:

- Serve assets directly from S3 to guarantee high speed and availability.
- Serve assets from our app server so that we guarantee users get the most up to date version.
- Serve assets from a CDN to leverage their infrastructure.
- Serve assets from our NGINX instance so that requests are authoritative but don't hit our app servers.
- I don't know

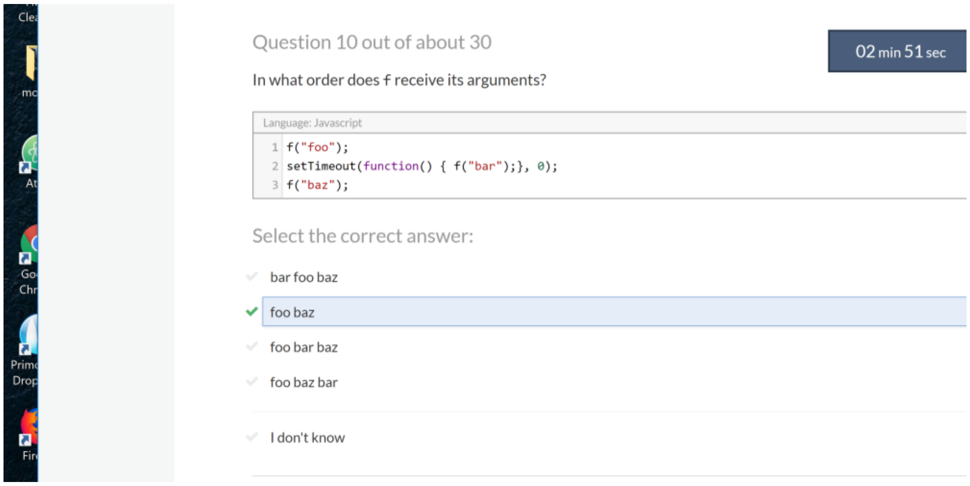


Language: Javascript

```javascript
let event = {
  name: "Hot Dog and Burger Sunday",
  financials: {
    baseCost: "$19.99",
    discountsAvailable: false,
    maxCost: "$29.99"
  },
  subscribers: [
    //lots of subcribers here
  ]
}

let eventPrice;

const assignEvent = ({ financials: { baseCost: price } }) => eventPrice = price;

assignEvent(event);
```

Select the correct answer:

- undefined
- "$29.99"
- "$19.99"



Question 10 out of about 30

02 min 51 sec

In what order does `f` receive its arguments?

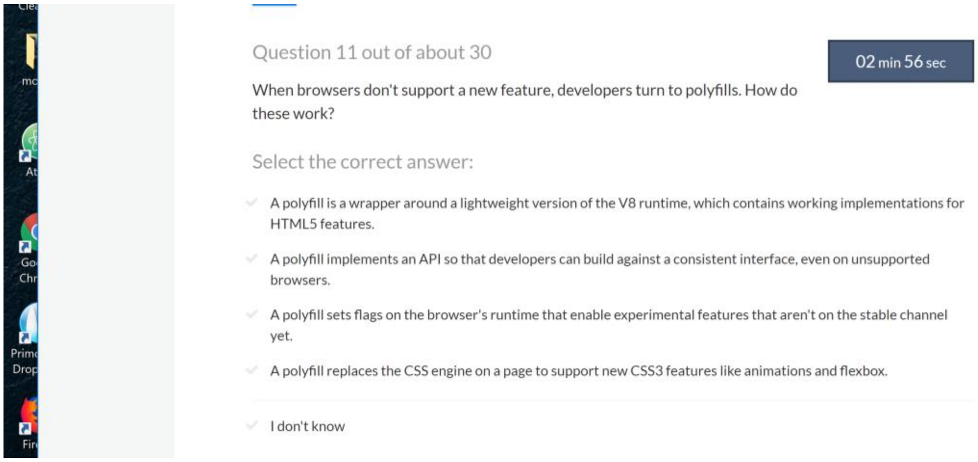
Language: Javascript

```javascript
f("foo");
setTimeout(function() { f("bar");}, 0);
f("baz");
```

Select the correct answer:

- bar foo baz
- ✓ foo baz
- foo bar baz
- foo baz bar

- I don't know



Question 11 out of about 30

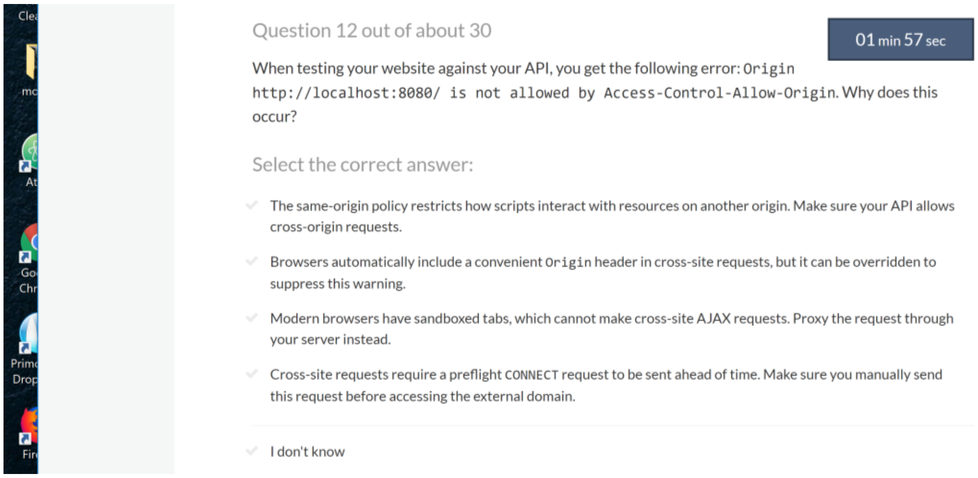
02 min 56 sec

When browsers don't support a new feature, developers turn to polyfills. How do these work?

Select the correct answer:

- A polyfill is a wrapper around a lightweight version of the V8 runtime, which contains working implementations for HTML5 features.
- A polyfill implements an API so that developers can build against a consistent interface, even on unsupported browsers.
- A polyfill sets flags on the browser's runtime that enable experimental features that aren't on the stable channel yet.
- A polyfill replaces the CSS engine on a page to support new CSS3 features like animations and flexbox.

- I don't know



Question 12 out of about 30

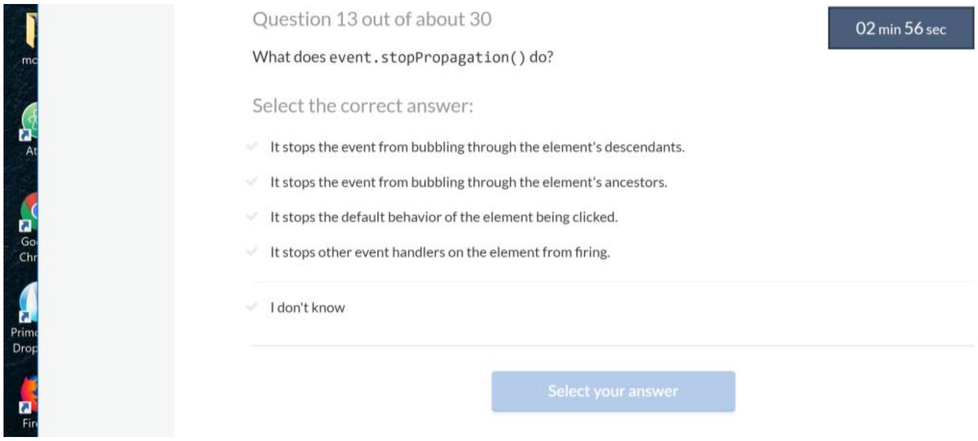
01 min 57 sec

When testing your website against your API, you get the following error: `Origin http://localhost:8080/ is not allowed by Access-Control-Allow-Origin`. Why does this occur?

Select the correct answer:

- The same-origin policy restricts how scripts interact with resources on another origin. Make sure your API allows cross-origin requests.
- Browsers automatically include a convenient `Origin` header in cross-site requests, but it can be overridden to suppress this warning.
- Modern browsers have sandboxed tabs, which cannot make cross-site AJAX requests. Proxy the request through your server instead.
- Cross-site requests require a preflight `CONNECT` request to be sent ahead of time. Make sure you manually send this request before accessing the external domain.

- I don't know

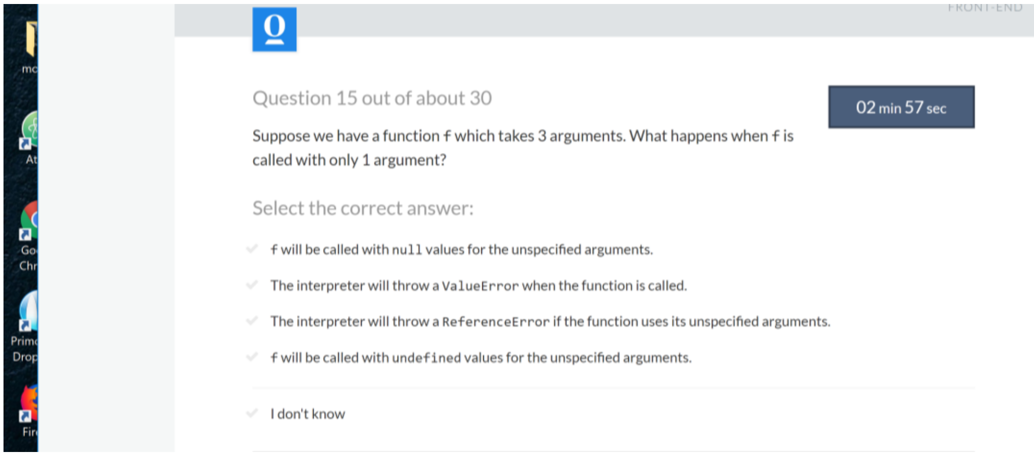


Question 13 out of about 30

What does `event.stopPropagation()` do?

Select the correct answer:

- It stops the event from bubbling through the element's descendants.
- It stops the event from bubbling through the element's ancestors.
- It stops the default behavior of the element being clicked.
- It stops other event handlers on the element from firing.
- I don't know

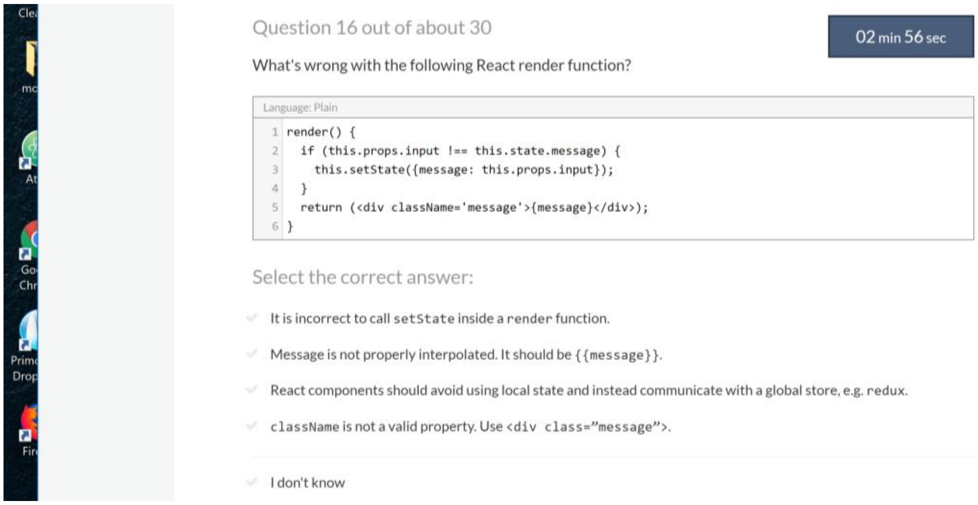


Question 15 out of about 30

Suppose we have a function `f` which takes 3 arguments. What happens when `f` is called with only 1 argument?

Select the correct answer:

- `f` will be called with `null` values for the unspecified arguments.
- The interpreter will throw a `ValueError` when the function is called.
- The interpreter will throw a `ReferenceError` if the function uses its unspecified arguments.
- `f` will be called with `undefined` values for the unspecified arguments.
- I don't know



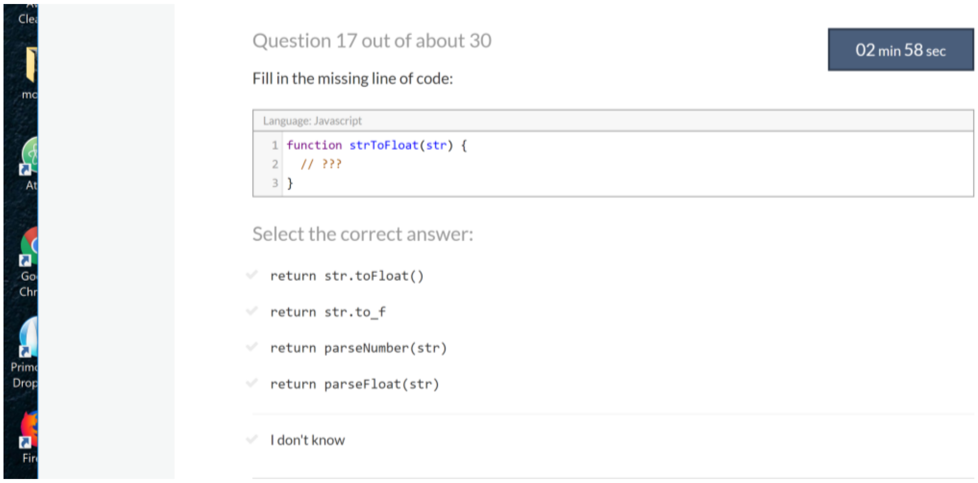
Question 16 out of about 30

What's wrong with the following React render function?

```
render() {
  if (this.props.input !== this.state.message) {
    this.setState({message: this.props.input});
  }
  return (<div className='message'>{message}</div>);
}
```

Select the correct answer:

- It is incorrect to call `setState` inside a `render` function.
- Message is not properly interpolated. It should be `{{message}}`.
- React components should avoid using local state and instead communicate with a global store, e.g. `redux`.
- `className` is not a valid property. Use `<div class=”message”>`.
- I don't know



Question 17 out of about 30

02 min 58 sec

Fill in the missing line of code:

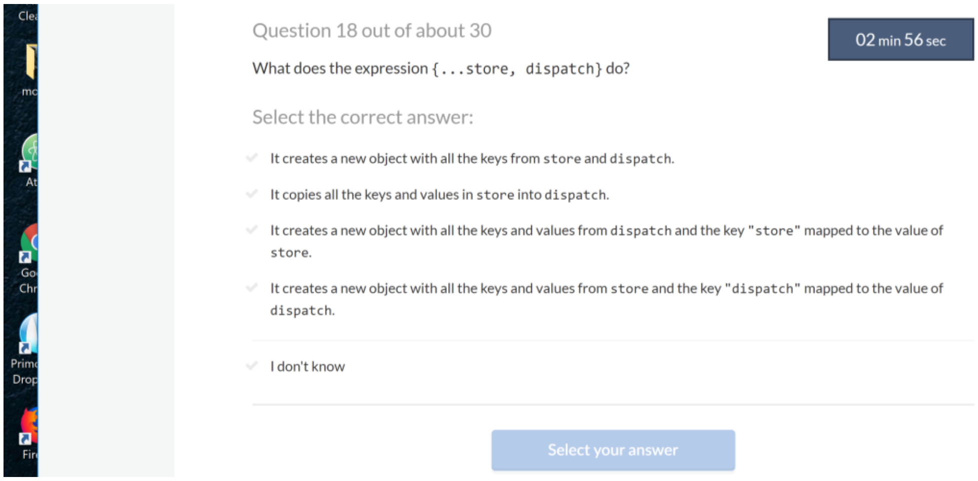
Language: Javascript

```javascript
function strToFloat(str) {
  // ???
}
```

Select the correct answer:

- ✓ `return str.toFloat()`
- ✓ `return str.to_f`
- ✓ `return parseNumber(str)`
- ✓ `return parseFloat(str)`

- ✓ I don't know



Question 18 out of about 30

02 min 56 sec

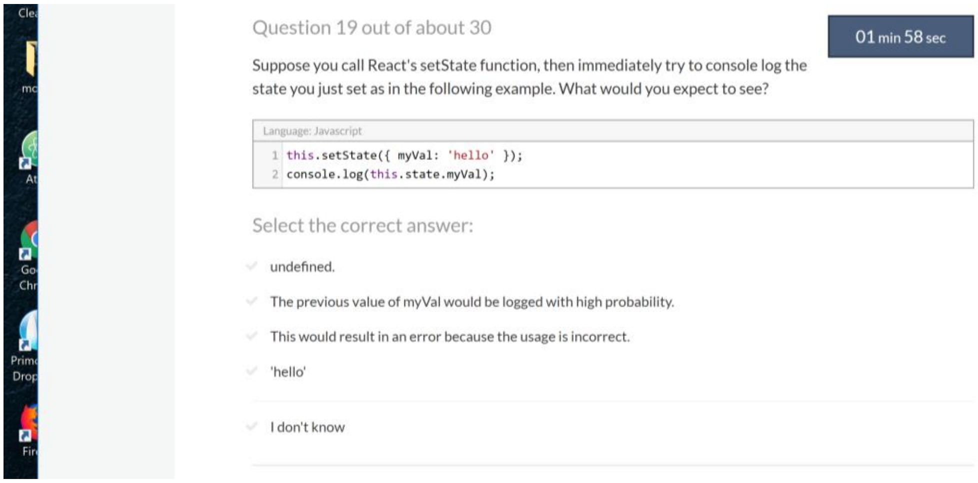
What does the expression `{...store, dispatch}` do?

Select the correct answer:

- ✓ It creates a new object with all the keys from `store` and `dispatch`.
- ✓ It copies all the keys and values in `store` into `dispatch`.
- ✓ It creates a new object with all the keys and values from `dispatch` and the key `"store"` mapped to the value of `store`.
- ✓ It creates a new object with all the keys and values from `store` and the key `"dispatch"` mapped to the value of `dispatch`.

- ✓ I don't know

Select your answer



Question 19 out of about 30

01 min 58 sec

Suppose you call React's setState function, then immediately try to console log the state you just set as in the following example. What would you expect to see?

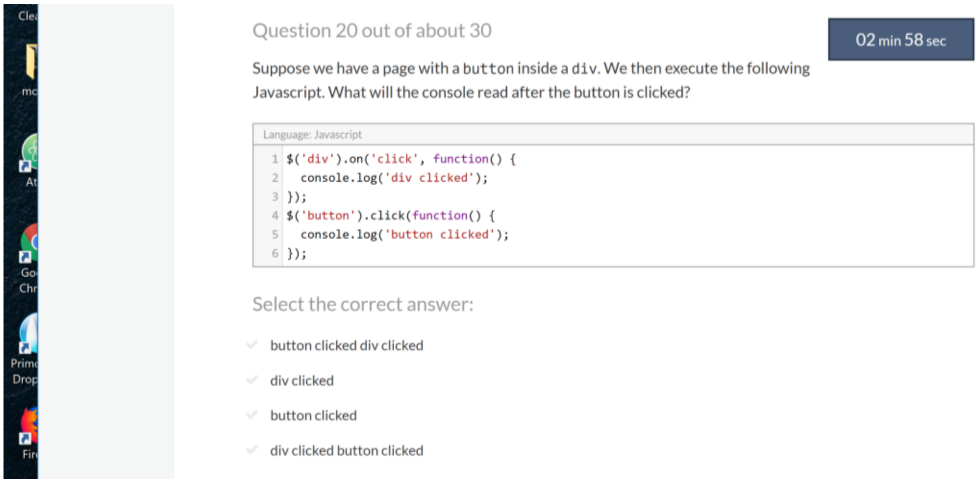
Language: Javascript

```javascript
this.setState({ myVal: 'hello' });
console.log(this.state.myVal);
```

Select the correct answer:

- ✓ undefined.
- ✓ The previous value of myVal would be logged with high probability.
- ✓ This would result in an error because the usage is incorrect.
- ✓ 'hello'

- ✓ I don't know



Question 20 out of about 30

02 min 58 sec

Suppose we have a page with a `button` inside a `div`. We then execute the following Javascript. What will the console read after the button is clicked?

Language: Javascript

```
$('div').on('click', function() {
  console.log('div clicked');
});
$('button').click(function() {
  console.log('button clicked');
});
```

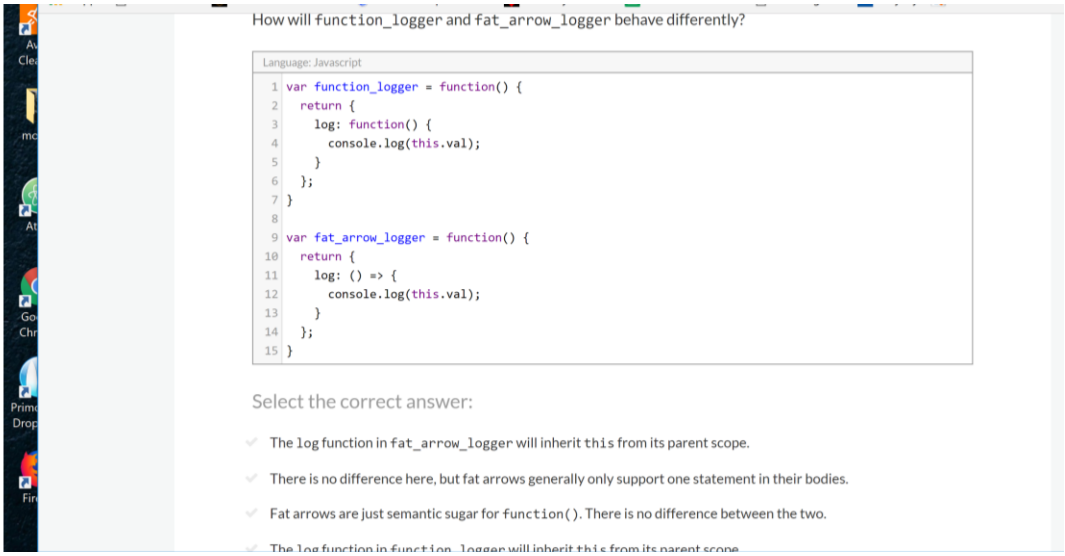
Select the correct answer:

✓ button clicked div clicked

✓ div clicked

✓ button clicked

✓ div clicked button clicked



How will `function_logger` and `fat_arrow_logger` behave differently?

Language: Javascript

```
var function_logger = function() {
  return {
    log: function() {
      console.log(this.val);
    }
  };
}

var fat_arrow_logger = function() {
  return {
    log: () => {
      console.log(this.val);
    }
  };
}
```

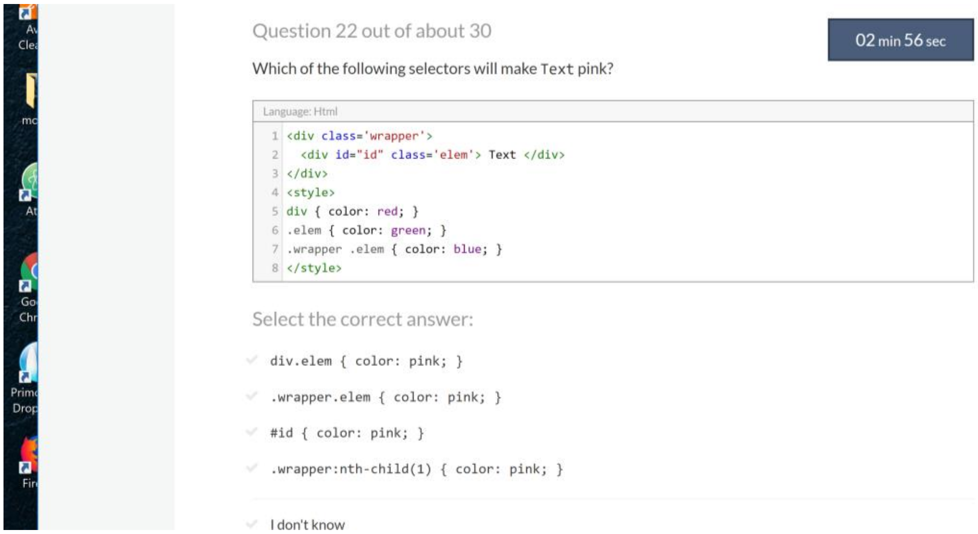
Select the correct answer:

✓ The `log` function in `fat_arrow_logger` will inherit `this` from its parent scope.

✓ There is no difference here, but fat arrows generally only support one statement in their bodies.

✓ Fat arrows are just semantic sugar for `function()`. There is no difference between the two.

✓ The `log` function in `function_logger` will inherit `this` from its parent scope.



Question 22 out of about 30

02 min 56 sec

Which of the following selectors will make `Text` pink?

Language: Html

```
<div class='wrapper'>
  <div id="id" class='elem'> Text </div>
</div>
<style>
div { color: red; }
.elem { color: green; }
.wrapper .elem { color: blue; }
</style>
```

Select the correct answer:

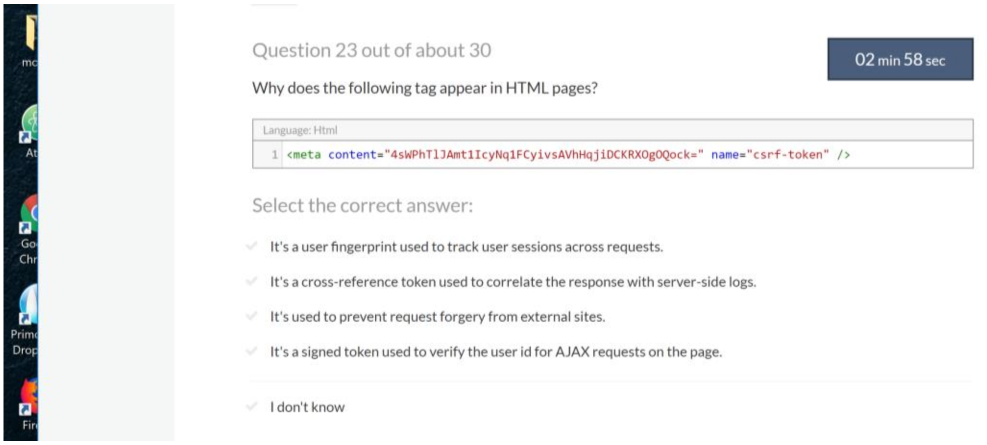
✓ `div.elem { color: pink; }`

✓ `.wrapper.elem { color: pink; }`

✓ `#id { color: pink; }`

✓ `.wrapper:nth-child(1) { color: pink; }`

✓ I don't know



Question 23 out of about 30

02 min 58 sec

Why does the following tag appear in HTML pages?

Language: Html

```html
<meta content="4sWPhTlJAmt1IcyNq1FCyivsAVhHqjiDCKRXOgOQock=" name="csrf-token" />
```

Select the correct answer:

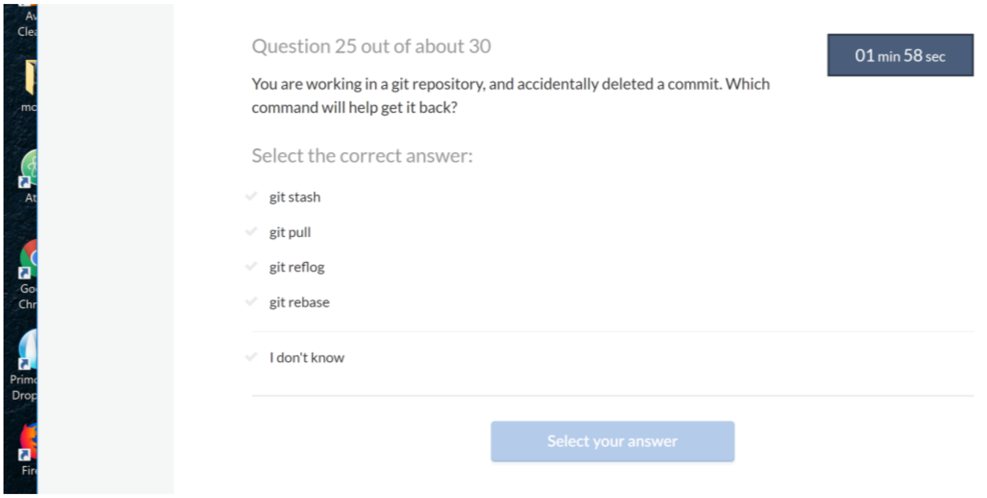
✓ It's a user fingerprint used to track user sessions across requests.

✓ It's a cross-reference token used to correlate the response with server-side logs.

✓ It's used to prevent request forgery from external sites.

✓ It's a signed token used to verify the user id for AJAX requests on the page.

✓ I don't know



Question 25 out of about 30

01 min 58 sec

You are working in a git repository, and accidentally deleted a commit. Which command will help get it back?

Select the correct answer:

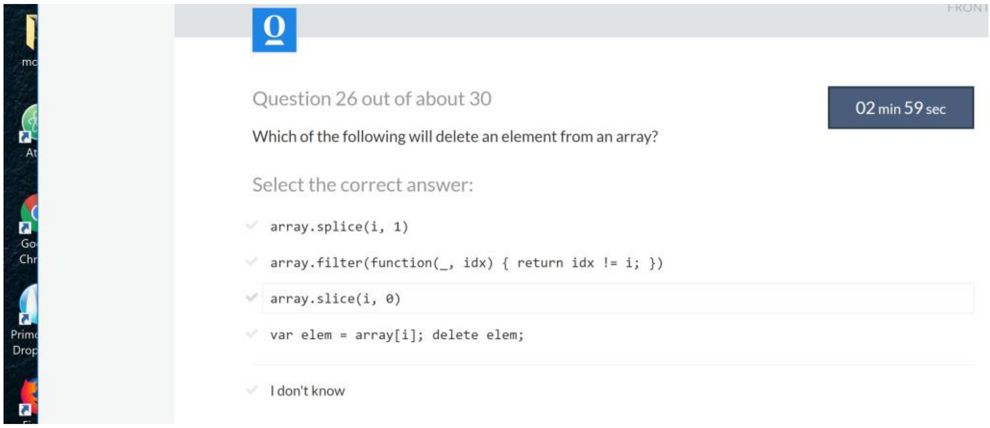
✓ git stash

✓ git pull

✓ git reflog

✓ git rebase

✓ I don't know



Question 26 out of about 30

02 min 59 sec

Which of the following will delete an element from an array?

Select the correct answer:

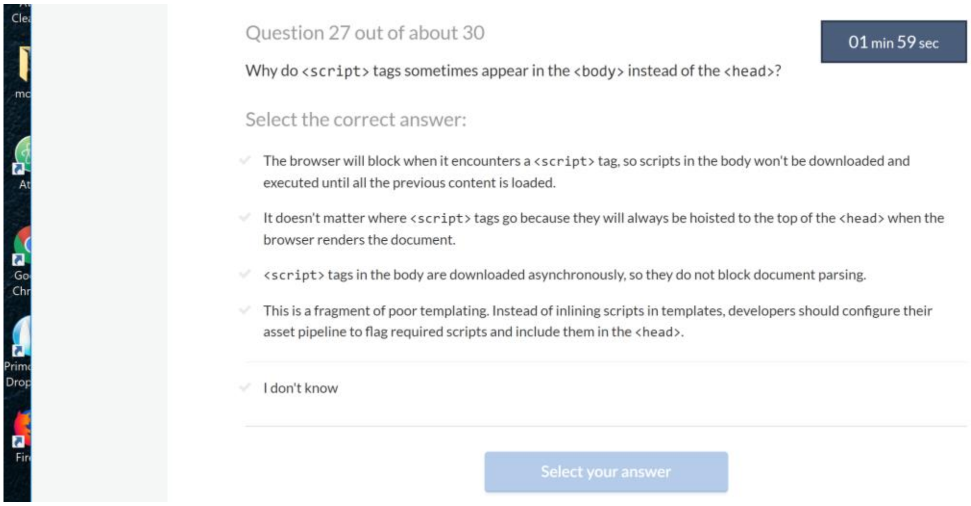
✓ `array.splice(i, 1)`

✓ `array.filter(function(_, idx) { return idx != i; })`

✓ `array.slice(i, 0)`

✓ `var elem = array[i]; delete elem;`

✓ I don't know



Question 27 out of about 30

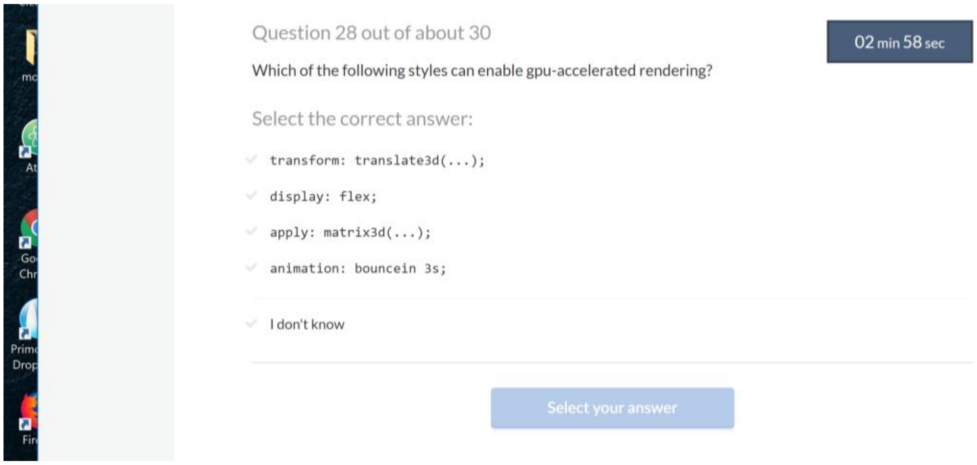
01 min 59 sec

Why do `<script>` tags sometimes appear in the `<body>` instead of the `<head>`?

Select the correct answer:

- ✓ The browser will block when it encounters a `<script>` tag, so scripts in the body won't be downloaded and executed until all the previous content is loaded.
- ✓ It doesn't matter where `<script>` tags go because they will always be hoisted to the top of the `<head>` when the browser renders the document.
- ✓ `<script>` tags in the body are downloaded asynchronously, so they do not block document parsing.
- ✓ This is a fragment of poor templating. Instead of inlining scripts in templates, developers should configure their asset pipeline to flag required scripts and include them in the `<head>`.

- ✓ I don't know



Question 28 out of about 30

02 min 58 sec

Which of the following styles can enable gpu-accelerated rendering?

Select the correct answer:

- ✓ `transform: translate3d(...);`
- ✓ `display: flex;`
- ✓ `apply: matrix3d(...);`
- ✓ `animation: bouncein 3s;`

- ✓ I don't know