1. Which, if any, of the following 3 code fragments are equivalent? Explain
why they are different, if they are. Explain why they can have different
parameters and be equivalent, if they are equivalent.

```
//code fragment 1
$("li").each(function (idx, e) {
    $(e).css("color", "yellow");
});
// code fragment 2
$("li").each(function () {
    $(this).css("color", "yellow");
});
// //code fragment 3
$("li").each(function (idx) {
    $(this).css("color", "yellow");
});
```

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Answer:

All of them are equivalent.
The number of parameters on the callback back function is provided to the
developer to use in different scenarios.
For example:
if we want to make some logic based on the current iteration index, we can
use index parameter. Basically $(this) and $(e) are the same.
That means, the callback is fired in the context of the current DOM element,
so the keyword this refers to the element.

2. Write a jQuery expression to find all divs on a page that include an
unordered list in them, and make their text color be blue.

```
<div>no ul here </div>
<div>
    This does contain a ul.
    <ul>
        <li>the first item</li>
        <li>the second item</li>
    </ul>
</div>
<script>
<!—INSERT YOUR JQUERY CODE HERE  - - >
</script>
</body>
```

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Answer:

```
$("div:has(ul)").css("color","blue");
```

3. Write jQuery code to append the following div element (and all of its contents) dynamically to the body element.
`<div><h1>JQuery Core</h1></div>`
HTML:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>JS Bin</title>
</head>
<body>
</body>
</html>
```

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Answer:

```
$("body").append('<div><h1>JQuery Core</h1></div>');
```