[ZANG] - [Chuanjie]

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**1. What might the JavaScript code look like if you want to iterate over the following collection of elements using jQuery’s each() method?**

**nodes = document.getElementsByTagName(‘div’);**

use the .each() method to iterate over the collection. Assuming nodes is a collection of div elements:

$(nodes).each(function(index, element) {

// Action for each element

console.log(element);

});

**2. What statement would you write inside a callback function provided to jQuery's each() method if you want to simulate a break**

**statement?**

use return false; to simulate a break statement and stop the iteration.

$(nodes).each(function(index, element) {

if (someCondition) {

return false; // Break the loop

}

});

**3. When filtering a selection using filter(), what does providing a**

**selector to the filter() method do?**

Providing a selector to the filter() method filters the selection to only those elements that match the selector.

$("div").filter(".active"); // Select only div elements with the 'active' class

1. **When filtering a selection using filter() with a callback function, what does returning true do?**

Returning true keeps the element in the filtered selection. Returning false excludes it.

$("div").filter(function(index) {

return $(this).hasClass("keep"); // Keep elements with the 'keep' class

});

1. **What value does a callback function provided to jQuery's grep()**

**method have to return to keep an item in the array？**

The callback function must return true to keep an item in the array.

var filteredArray = $.grep(array, function(element) {

return element > 10; // Keep elements greater than 10

});

1. **What happens to the value returned by a callback function provided to jQuery's map() method?**

The values returned by the map() method form a new array.

var newArray = $.map(array, function(element) {

return element \* 2; // Multiply each element by 2

});

1. **What does -1 (minus one) mean when returned by jQuery’s $.inArray() method?**

-1 means that the value was not found in the array.

if ($.inArray(value, array) === -1) {

console.log("Value not found");

}

1. **What script would you use if you want to obtain the value of the color property for a <div> element using jQuery?**

use the .css() method to get the color property.

var color = $("div").css("color");

1. **If you want to set the background color of a web page using jQuery, what code would you use?**

use the .css() method to set the background color.

$("body").css("background-color", "blue");

1. **If you need to set padding, a margin, and a border on a set of <div> elements using jQuery, what would the code look like?**

set multiple CSS properties using the .css() method.

$("div").css({

"padding": "10px",

"margin": "15px",

"border": "1px solid black"

});

**11.What is the jQuery method that returns an element's pixel width**

**including border and padding dimensions called?**

The .outerWidth() method returns the width of an element, including border and padding.

var width = $("div").outerWidth();

**12.If you want to obtain a <div> element’s pixel height including a border, padding and margins using jQuery, what would the code look like?**

use .outerHeight(true) to get the height, including margins.

var height = $("div").outerHeight(true);