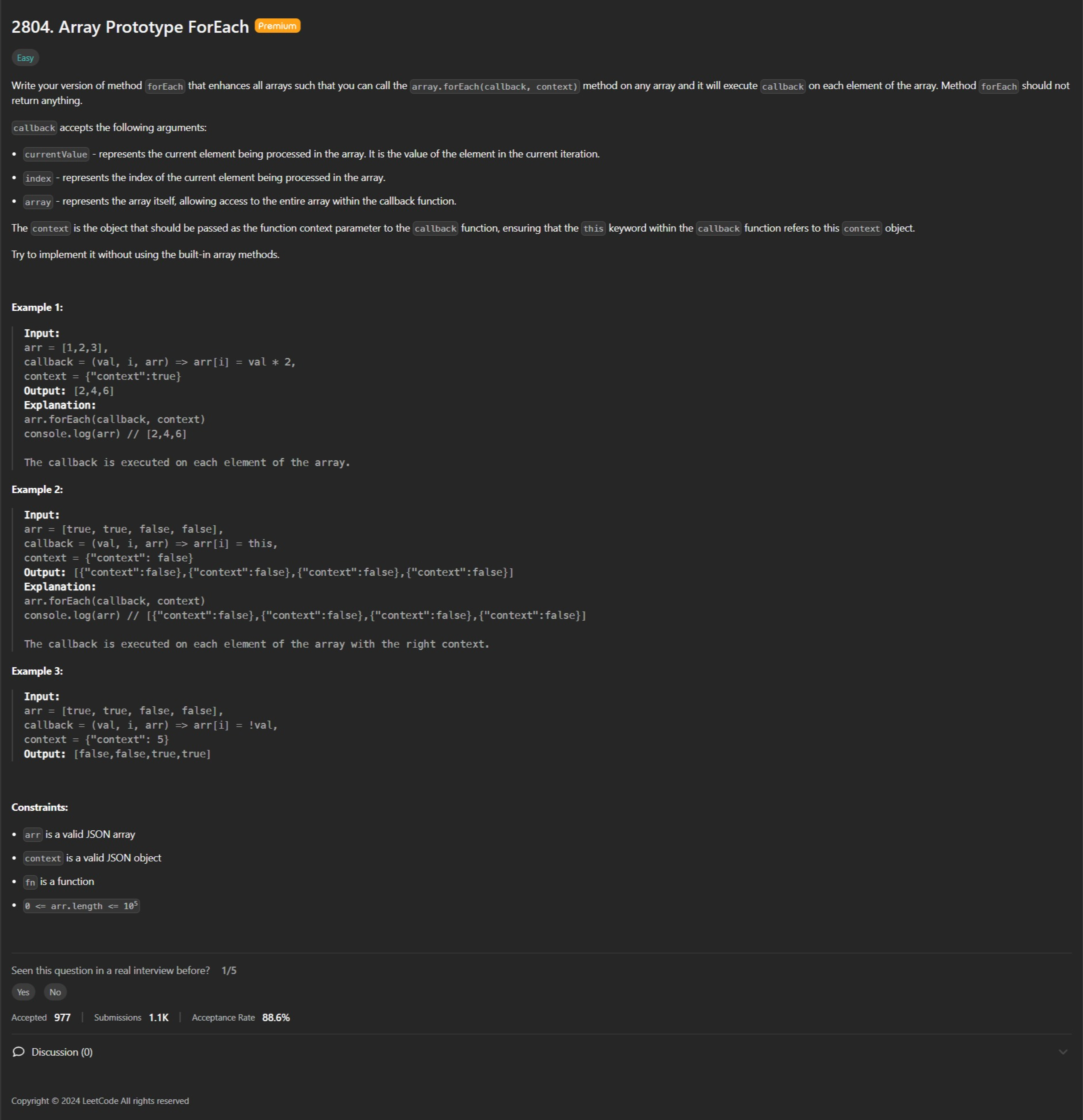

2804. Array Prototype ForEach Premium

Easy

Write your version of method `forEach` that enhances all arrays such that you can call the `array.forEach(callback, context)` method on any array and it will execute `callback` on each element of the array. Method `forEach` should not return anything.

`callback` accepts the following arguments:

- `currentValue` - represents the current element being processed in the array. It is the value of the element in the current iteration.
- `index` - represents the index of the current element being processed in the array.
- `array` - represents the array itself, allowing access to the entire array within the callback function.

The `context` is the object that should be passed as the function context parameter to the `callback` function, ensuring that the `this` keyword within the `callback` function refers to this `context` object.

Try to implement it without using the built-in array methods.

Example 1:

```
Input:
arr = [1,2,3],
callback = (val, i, arr) => arr[i] = val * 2,
context = {"context":true}
Output: [2,4,6]
Explanation:
arr.forEach(callback, context)
console.log(arr) // [2,4,6]

The callback is executed on each element of the array.
```

Example 2:

```
Input:
arr = [true, true, false, false],
callback = (val, i, arr) => arr[i] = this,
context = {"context": false}
Output: [{"context":false},{"context":false},{"context":false},{"context":false}]
Explanation:
arr.forEach(callback, context)
console.log(arr) // [{"context":false},{"context":false},{"context":false},{"context":false}]

The callback is executed on each element of the array with the right context.
```

Example 3:

```
Input:
arr = [true, true, false, false],
callback = (val, i, arr) => arr[i] = !val,
context = {"context": 5}
Output: [false,false,true,true]
```

Constraints:

- `arr` is a valid JSON array
- `context` is a valid JSON object
- `fn` is a function
- $0 <= \texttt{arr.length} <= 10^5$

Seen this question in a real interview before? 1/5

Yes No

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Discussion (0)