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♦ E Problem List 〈 > 💢
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                                                                                                                                                   JavaScript ✓ • Auto
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2692. Make Object Immutable Premium
                                                                                                                                                      2 |* @param {Object|Array} obj
3 |* @return {Object|Array} immutable obj
4 |*/
Medium 🛭 Hint
Write a function that takes an object obj and returns a new immutable version of this object.
                                                                                                                                                      5 var makeImmutable = function(obj) {
                                                                                                                                                              An immutable object is an object that can't be altered and will throw an error if any attempt is made to alter it.
There are three types of error messages that can be produced from this new object.
                                                                                                                                                    10

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• Attempting to modify a key on the object will result in this error message: `Error Modifying: ${key}`.

    Attempting to modify an index on an array will result in this error message: "Error Modifying Index: ${index}".

                                                                                                                                                                        }
throw `Error Modifying: ${prop}`;

    Attempting to call a method that mutates an array will result in this error message: `Error Calling Method:

   ${methodName}`. You may assume the only methods that can mutate an array are ['pop', 'push', 'shift', 'unshift',
'splice', 'sort', 'reverse'].
                                                                                                                                                                    J,
get(tanget, prop)(
   if (Array.isArray(tanget) && (
        prope=='pop' || prope=='push' || prope=='shift' || prope=='unshift' ||
        prope=-'splice' || prope=-'sort' || prope=-'reverse'
obj is a valid JSON object or array, meaning it is the output of JSON.parse().
Note that a string literal should be thrown, not an Error.
                                                                                                                                                                             return (...arguments) => {throw `Error Calling Method: ${prop}`};
                                                                                                                                                                         }
if (typeof obj[prop] === 'object' && obj[prop] !== null){
    // call recursively
    return makeImmutable(obj[prop]);
Example 1:
   Input:
                                                                                                                                                   fn = (obj) => {
     obj.x = 5;
return obj.x;
                                                                                                                                                    Accepted Runtime: 60 ms
   }
Output: {"value": null, "error": "Error Modifying: X"}
Explanation: Attempting to modify a key on an object resuts in a thrown error. Note that it doesn't matter that the value was set to the same value as it was before.
                                                                                                                                                     • Case 1 • Case 2 • Case 3 • Case 4
                                                                                                                                                    Input
                                                                                                                                                      {"x":5}
Example 2:
   Input:
                                                                                                                                                      (obi) => { obi.x = 5; return obi.x; }
   obj = [1, 2, 3]
fn = (arr) => {
  arr[1] = {};
      return arr[2];
   Output: {"value": null, "error": "Error Modifying Index: 1"}
Explanation: Attempting to modify an array results in a thrown error.
Evample 3:
   Input:
   obj = {
  "arr": [1, 2, 3]
   fn = (obj) => {
     obj.arr.push(4);
return 42;
   Output: { "value": null, "error": "Error Calling Method: push"}
Explanation: Calling a method that can result in a mutation results in a thrown error.
Example 4:
   Input:
   obj = {
 "x": 2,
 "y": 2
   fn = (obj) => {
  return Object.keys(obj);
   }
Output: {"value": ["x", "y"], "error": null}
Explanation: No mutations were attempted so the function returns as normal.

    obj is a valid JSON object or array

• 2 <= JSON.stringify(obj).length <= 10<sup>5</sup>
Seen this question in a real interview before? 1/5
Yes No
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