

Problem 2628: JSON Deep Equal

Problem Information

Difficulty: Medium

Acceptance Rate: 39.27%

Paid Only: Yes

Problem Description

Given two values `o1`` and `o2``, return a boolean value indicating whether two values, `o1`` and `o2``, are **deeply equal**.

For two values to be **deeply equal**, the following conditions must be met:

- * If both values are primitive types, they are **deeply equal** if they pass the `===`` equality check.

- * If both values are arrays, they are **deeply equal** if they have the same elements in the same order, and each element is also **deeply equal** according to these conditions.

- * If both values are objects, they are **deeply equal** if they have the same keys, and the associated values for each key are also **deeply equal** according to these conditions.

You may assume both values are the output of `JSON.parse``. In other words, they are valid JSON.

Please solve it without using lodash's `_.isEqual()`` function

Example 1:

Input: `o1 = {"x":1,"y":2}, o2 = {"x":1,"y":2}` **Output:** `true` **Explanation:** The keys and values match exactly.

Example 2:

****Input:**** o1 = {"y":2,"x":1}, o2 = {"x":1,"y":2} ****Output:**** true ****Explanation:**** Although the keys are in a different order, they still match exactly.

****Example 3:****

****Input:**** o1 = {"x":null,"L":[1,2,3]}, o2 = {"x":null,"L":["1","2","3"]} ****Output:**** false
****Explanation:**** The array of numbers is different from the array of strings.

****Example 4:****

****Input:**** o1 = true, o2 = false ****Output:**** false ****Explanation:**** true !== false

****Constraints:****

* `1 <= JSON.stringify(o1).length <= 105` * `1 <= JSON.stringify(o2).length <= 105` *
`maxNestingDepth <= 1000`

Code Snippets

JavaScript:

```
/**
 * @param {null|boolean|number|string|Array|Object} o1
 * @param {null|boolean|number|string|Array|Object} o2
 * @return {boolean}
 */
var areDeeplyEqual = function(o1, o2) {

};
```

TypeScript:

```
type JSONValue = null | boolean | number | string | JSONValue[] | { [key:
string]: JSONValue };

function areDeeplyEqual(o1: JSONValue, o2: JSONValue): boolean {

};
```