

# 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 {  
};
```