Problem 2633: Convert Object to JSON String

Problem Information

Difficulty: Medium
Acceptance Rate: 0.00%
Paid Only: No

Problem Description

Given a value, return a valid JSON string of that value. The value can be a string, number, array, object, boolean, or null. The returned string should not include extra spaces. The order of keys should be the same as the order returned by

Object.keys()

.

Please solve it without using the built-in

JSON.stringify

method.

Example 1:

Input:

object = {"y":1,"x":2}

Output:

{"y":1,"x":2}

Explanation:

Return the JSON representation. Note that the order of keys should be the same as the order returned by Object.keys().

Example 2:

Input:

object = {"a":"str","b":-12,"c":true,"d":null}

Output:

{"a":"str","b":-12,"c":true,"d":null}

Explanation:

The primitives of JSON are strings, numbers, booleans, and null.

Example 3:

Input:

object = {"key":{"a":1,"b":[{},null,"Hello"]}}

Output:

{"key":{"a":1,"b":[{},null,"Hello"]}}

Explanation:

Objects and arrays can include other objects and arrays.

Example 4:

Input:

object = true

Output:

true

Explanation:

Primitive types are valid inputs.

Constraints:

value

is a valid JSON value

1 <= JSON.stringify(object).length <= 10

5

maxNestingLevel <= 1000

all strings contain only alphanumeric characters

Code Snippets

JavaScript:

```javascript
/**
 * @param {null|boolean|number|string|Array|Object} object
 * @return {string}
 */
var jsonStringify = function(object) {

};
```

TypeScript:

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

function jsonStringify(object: JSONValue): string {
```

```
    };
```

Solutions

JavaScript Solution:

```
/**
 * Problem: Convert Object to JSON String
 * Difficulty: Medium
 * Tags: array, string
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(1) to O(n) depending on approach
 */


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