

Problem 2759: Convert JSON String to Object

Problem Information

Difficulty: Hard

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Given a string

str

, return parsed JSON

parsedStr

. You may assume the

str

is a valid JSON string hence it only includes strings, numbers, arrays, objects, booleans, and null.

str

will not include invisible characters and escape characters.

Please solve it without using the built-in

JSON.parse

method.

Example 1:

Input:

```
str = '{"a":2,"b":[1,2,3]}'
```

Output:

```
{"a":2,"b":[1,2,3]}
```

Explanation:

Returns the object represented by the JSON string.

Example 2:

Input:

```
str = 'true'
```

Output:

```
true
```

Explanation:

Primitive types are valid JSON.

Example 3:

Input:

```
str = '[1,5,"false", {"a":2}]'
```

Output:

```
[1,5,"false", {"a":2}]
```

Explanation:

Returns the array represented by the JSON string.

Constraints:

str

is a valid JSON string

$1 \leq \text{str.length} \leq 10$

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Code Snippets

JavaScript:

```
/**  
 * @param {string} str  
 * @return {null|boolean|number|string|Array|Object}  
 */  
var jsonParse = function(str) {  
  
};
```

TypeScript:

```
type JSONValue = null | boolean | number | string | JSONValue[] | { [key:  
string]: JSONValue };  
  
function jsonParse(str: string): JSONValue {  
  
};
```

Solutions

JavaScript Solution:

```
/**  
 * Problem: Convert JSON String to Object
```

```

* Difficulty: Hard
* 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
*/

```

```

/**
* @param {string} str
* @return {null|boolean|number|string|Array|Object}
*/
var jsonParse = function(str) {

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TypeScript Solution:

```

/**
* Problem: Convert JSON String to Object
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type JSONValue = null | boolean | number | string | JSONValue[] | { [key: string]: JSONValue };

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function jsonParse(str: string): JSONValue {

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