Problem 2759: Convert JSON String to Object

Problem Information

Difficulty: Hard
Acceptance Rate: 61.05%
Paid Only: Yes

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 <= str.length <= 105`

Code Snippets

JavaScript:

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

};
```

TypeScript:

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

function jsonParse(str: string): JSONValue {

};
```