

Problem 2822: Inversion of Object

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Given an object or an array

obj

, return an inverted object or array

invertedObj

The

invertedObj

should have the keys of

obj

as values and the values of

obj

as keys. The indices of array should be treated as keys.

The function should handle duplicates, meaning that if there are multiple keys in

obj

with the same value, the

invertedObj

should map the value to an array containing all corresponding keys.

It is guaranteed that the values in

obj

are only strings.

Example 1:

Input:

```
obj = {"a": "1", "b": "2", "c": "3", "d": "4"}
```

Output:

```
invertedObj = {"1": "a", "2": "b", "3": "c", "4": "d"}
```

Explanation:

The keys from obj become the values in invertedObj, and the values from obj become the keys in invertedObj.

Example 2:

Input:

```
obj = {"a": "1", "b": "2", "c": "2", "d": "4"}
```

Output:

```
invertedObj = {"1": "a", "2": ["b", "c"], "4": "d"}
```

Explanation:

There are two keys in obj with the same value, the invertedObj mapped the value to an array containing all corresponding keys.

Example 3:

Input:

```
obj = ["1", "2", "3", "4"]
```

Output:

```
invertedObj = {"1": "0", "2": "1", "3": "2", "4": "3"}
```

Explanation:

Arrays are also objects therefore array has changed to an object and the keys (indices) from obj become the values in invertedObj, and the values from obj become the keys in invertedObj.

Constraints:

obj

is a valid JSON object or array

`typeof obj[key] === "string"`

`2 <= JSON.stringify(obj).length <= 10`

5

Code Snippets

JavaScript:

```

/**
 * @param {Object|Array} obj
 * @return {Object}
 */
var invertObject = function(obj) {

};

```

TypeScript:

```

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

type Obj = Record<string, JSONValue> | Array<JSONValue>

function invertObject(obj: Obj): Record<string, JSONValue> {

};

```

Solutions

JavaScript Solution:

```

/**
 * Problem: Inversion of Object
 * Difficulty: Easy
 * 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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 * @param {Object|Array} obj
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type JSONValue = null | boolean | number | string | JSONValue[] | { [key:  
string]: JSONValue };  
type Obj = Record<string, JSONValue> | Array<JSONValue>  
  
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