

Problem List

DescriptionEditorialSolutionsSubmissions

2775. Undefined to NullPremium

Solved

Medium

Given a deeply nested object or array `obj`, return the object `obj` with any `undefined` values replaced by `null`.

`undefined` values are handled differently than `null` values when objects are converted to a JSON string using `JSON.stringify()`. This function helps ensure serialized data is free of unexpected errors.

**Example 1:**

**Input:** `obj = {"a": undefined, "b": 3}`  
**Output:** `{"a": null, "b": 3}`  
**Explanation:** The value for `obj.a` has been changed from `undefined` to `null`

**Example 2:**

**Input:** `obj = {"a": undefined, "b": [{"a", undefined}]}`  
**Output:** `{"a": null, "b": [{"a", null}]}`  
**Explanation:** The values for `obj.a` and `obj.b[1]` have been changed from `undefined` to `null`

**Constraints:**

- `obj` is a valid JSON object or array
- `2 <= JSON.stringify(obj).length <= 105`

Seen this question in a real interview before? 1/5

YesNo

Accepted 466Submissions 697Acceptance Rate 66.9%

Discussion (0)

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</> Code

TypeScriptAuto

```
1 type JSONValue = null | boolean | number | string | JSONValue[] | { [key: string]: JSONValue };
2 type Value = undefined | null | boolean | number | string | Value[] | { [key: string]: Value };
3
4 type Obj1 = Record<string, Value> | Array<Value>
5 type Obj2 = Record<string, JSONValue> | Array<JSONValue>
6
7 function undefinedToNull(obj: Obj1): Obj2 {
8
9     if (obj == null) {
10         return null;
11     }
12
13     if (Array.isArray(obj)) {
14         return obj.map(item => undefinedToNull(item as any));
15     }
16
17     if (typeof obj === "object") {
18         const newObj = {};
19         for (const key in obj) {
20             newObj[key] = undefinedToNull(obj[key] as any);
21         }
22         return newObj;
23     }
24
25     return obj;
26
27 };
28
29 /**
30  * undefinedToNull({"a": undefined, "b": 3}) // {"a": null, "b": 3}
31  * undefinedToNull([undefined, undefined]) // [null, null]
32  */
33
```

SavedLn 18, Col 27

TestcaseTest Result

AcceptedRuntime: 59 ms

Case 1Case 2