

Problem List

DescriptionEditorialSolutionsSubmissions

2754. Bind Function to Context Premium

Solved

MediumHint

Enhance all functions to have the `bindPolyfill` method. When `bindPolyfill` is called with a passed object `obj`, that object becomes the `this` context for the function.

For example, if you had the code:

```
function f() {
  console.log('My context is ' + this.ctx);
}
f();
```

The output would be `"My context is undefined"`. However, if you bound the function:

```
function f() {
  console.log('My context is ' + this.ctx);
}
const boundFunc = f.bindPolyfill({ ctx: "My Object" })
boundFunc();
```

The output should be `"My context is My Object"`.

You may assume that a single non-null object will be passed to the `bindPolyfill` method.

Please solve it without the built-in `Function.prototype.bind` method.

Example 1:

**Input:**

```
fn = function f(multiplier) {
  return this.x * multiplier;
}
obj = {"x": 10}
inputs = [5]
```

**Output:** 50

**Explanation:**

```
const boundFunc = f.bindPolyfill({"x": 10});
boundFunc(5); // 50
```

A multiplier of 5 is passed as a parameter. The context is set to `{"x": 10}`. Multiplying those two numbers yields 50.

Example 2:

**Input:**

```
fn = function speak() {
  return "My name is " + this.name;
}
obj = {"name": "Kathy"}
inputs = []
```

**Output:** "My name is Kathy"

**Explanation:**

```
const boundFunc = f.bindPolyfill({"name": "Kathy"});
boundFunc(); // "My name is Kathy"
```

Constraints:

- `obj` is a non-null object
- `0 <= inputs.length <= 100`

Can you solve it without using any built-in methods?

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

Yes

No

Accepted 504

Submissions 583

Acceptance Rate 86.4%

Hint 1

Hint 2

Hint 3

Discussion (3)

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</> Code

TypeScriptAuto

```
1 type Fn = (...args) => any
2
3 declare global {
4   interface Function {
5     bindPolyfill(obj: Record<any, any>): Fn;
6   }
7 }
8
9 function.prototype.bindPolyfill = function(obj): Fn {
10   return this.bind(obj)
11 }
12 }
```

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TestcaseTest Result

AcceptedRuntime: 67 ms

Case 1

Case 2

Input

function f(multiplier) { return this.x \* multiplier; }

{"x":10}

[5]

Output

50

Expected

153

50