

2754. Bind Function to Context Premium

Medium  Hint

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.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


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 Hint 1


The easiest way to solve this is to use the built-in `fn.apply()` method.

 Hint 2

Without built-in methods, you need to figure out a way to call the function (`this`) from context object. That will associate `"this"` appropriately.

 Hint 3

You can create a new `Symbol()`. Attach the symbol to the context object and set the method to be `"this"`. Then call the method on the symbol.

 Discussion (4)