

## Fix a function that loses "this" [↗](#)

importance: 5

The call to `askPassword()` in the code below should check the password and then call `user.loginOk/loginFail` depending on the answer.

But it leads to an error. Why?

Fix the highlighted line for everything to start working right (other lines are not to be changed).

```
1 function askPassword(ok, fail) {
2   let password = prompt("Password?", '');
3   if (password == "rockstar") ok();
4   else fail();
5 }
6
7 let user = {
8   name: 'John',
9
10  loginOk() {
11    alert(`${this.name} logged in`);
12  },
13
14  loginFail() {
15    alert(`${this.name} failed to log in`);
16  },
17
18 };
19
20 askPassword(user.loginOk, user.loginFail);
```

Solutions:

```
function askPassword(ok, fail) {
  let password = prompt("Password?", '');
  if (password == "rockstar") ok();
  else fail();
}
```

```
let user = {
  name: 'John',

  loginOk() {
    console.log(`${this.name} logged in`);
  },

  loginFail() {
    console.log(`${this.name} failed to log in`);
  },

};
```

```
askPassword(user.loginOk.bind(user), user.loginFail.bind(user));
askPassword(() => user.loginOk.call(user), () => user.loginFail.call(user));
```

```
askPassword(() => user.loginOk.apply(user), ()=> user.loginFail.apply(user));
askPassword(() => user.loginOk(), ()=> user.loginFail());
```

- Question 2: Fix the code below using bind

```
let group = {
  title: "Our Group",
  students: ["John", "Pete", "Alice"],

  showList: function() {
    this.students.forEach(function(student) {
      console.log(this.title + ": " + student);
    });
  }
};
group.showList();
```

Solution:

```
let group = {
  title: "Our Group",
  students: ["John", "Pete", "Alice"],

  showList: function() {
    this.students.forEach(function(student) {
      console.log(this.title + ": " + student);
    }).bind(this);
  }
};
group.showList();
```