



## Lab 7 -> Answers

### Question 1: Fix using wrapper, bind, call, apply.

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);
```

```
1 function askPassword(ok, fail) {
2   let password = prompt("Password?", '');
3   if (password === "rockstar") {
4     ok();
5   } else {
6     fail();
7   }
8 }
9
10 let user = {
11   name: 'John',
12   loginOk: function() {
13     console.log(`${this.name} logged in`);
14   },
15   loginFail: function() {
16     console.log(`${this.name} failed to log in`);
17   }
18 };
19
20 askPassword(user.loginOk.bind(user), user.loginFail.bind(user));
21 askPassword(() => user.loginOk.call(user), () => user.loginFail.call(user));
22 askPassword(() => user.loginOk.apply(user), () => user.loginFail.apply(user));
23 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();
```

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### Solution:

```
1  let group = {
2    title: "Our Group",
3    students: ["John", "Pete", "Alice"],
4    showList: function () {
5      this.students.forEach(function (student) {
6        console.log(this.title + ": " + student);
7        }.bind(this));
8    }
9  };
10 group.showList();
```

