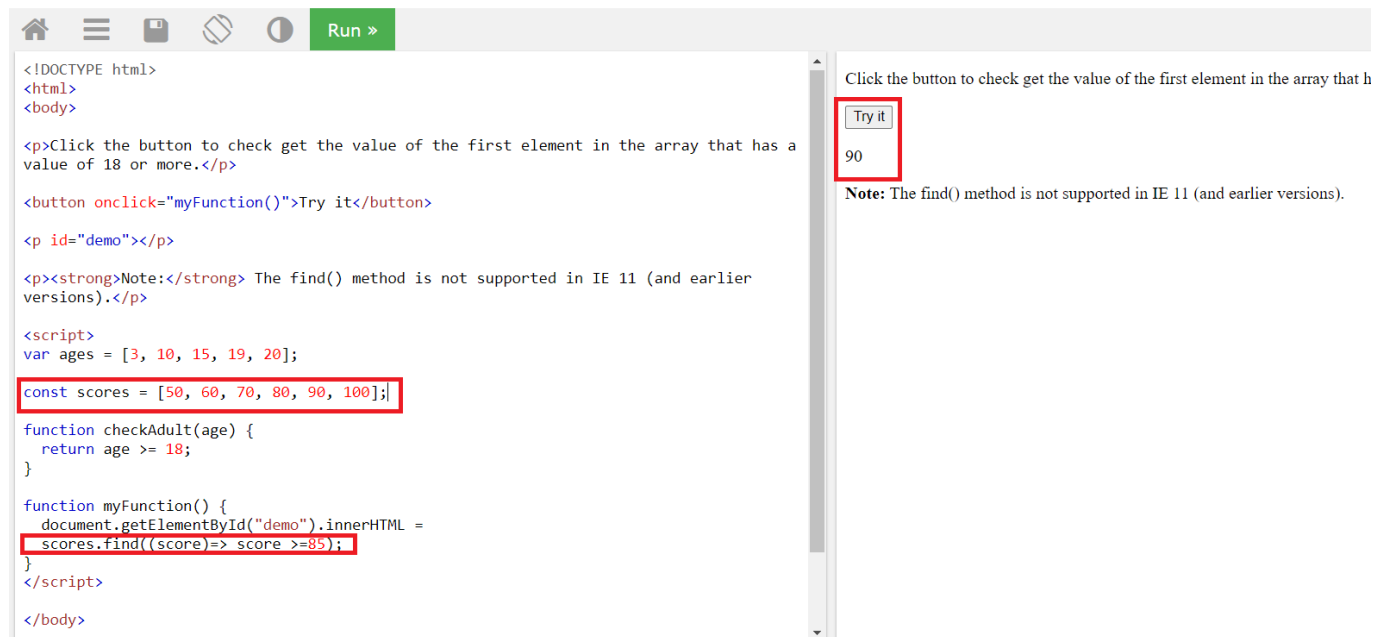


[Github URL](#)

W06-P1: Run w3school scores.find()



Click the button to check get the value of the first element in the array that has a value of 18 or more.

Try it

90

Note: The find() method is not supported in IE 11 (and earlier versions).

```
<!DOCTYPE html>
<html>
<body>

<p>Click the button to check get the value of the first element in the array that has a
value of 18 or more.</p>

<button onclick="myFunction()">Try it</button>

<p id="demo"></p>

<p><strong>Note:</strong> The find() method is not supported in IE 11 (and earlier
versions).</p>

<script>
var ages = [3, 10, 15, 19, 20];

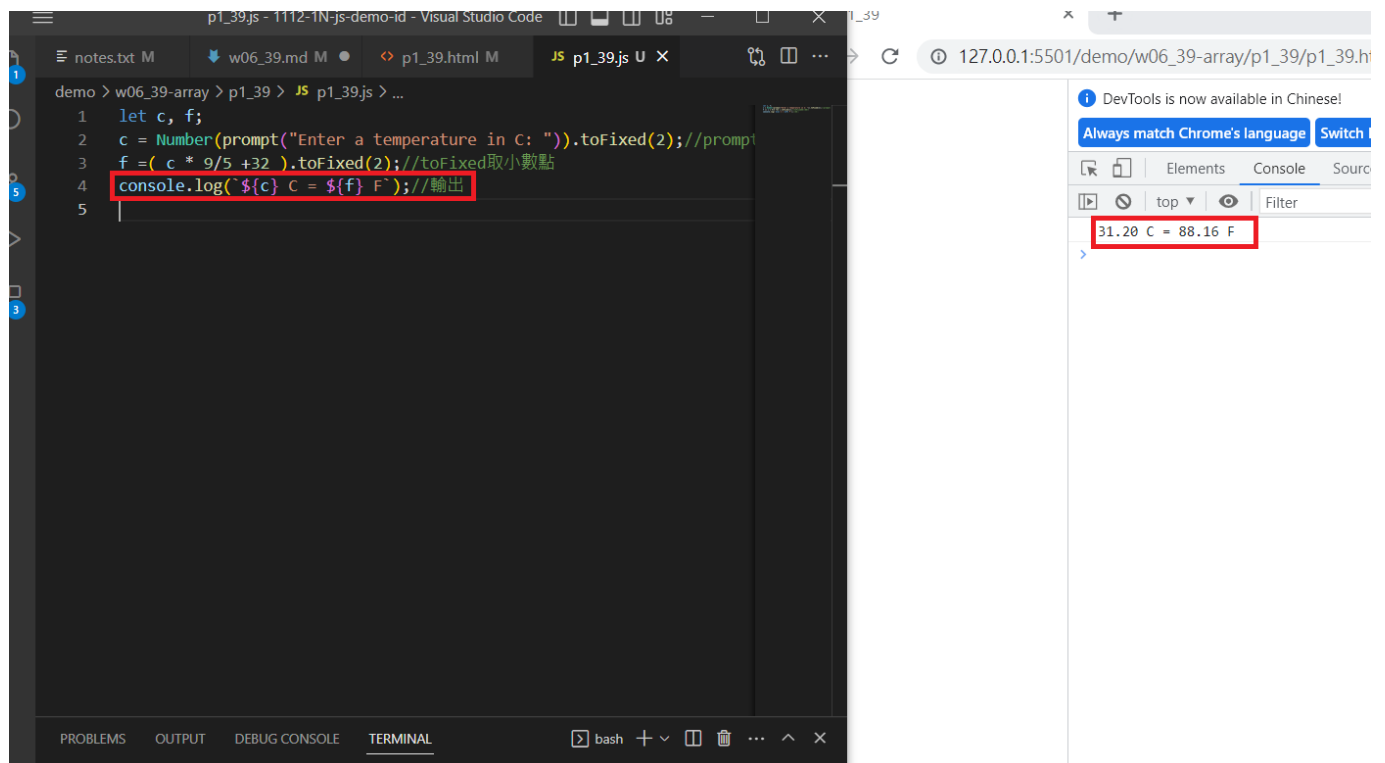
const scores = [50, 60, 70, 80, 90, 100];

function checkAdult(age) {
  return age >= 18;
}

function myFunction() {
  document.getElementById("demo").innerHTML =
    scores.find((score)=> score >=85);
}
</script>
</body>
```

8d4b326 21141003901~ Thu Mar 23 19:02:36 2023 +0800 W06-P1: Run w3school
scores.find()

W06-P2: temperature convert from C to F



demo > w06_39-array > p1_39 > JS p1_39.js > ...

```
1 let c, f;
2 c = Number(prompt("Enter a temperature in C: ")).toFixed(2); //prompt
3 f = (c * 9/5 + 32).toFixed(2); //toFixed取小數點
4 console.log(`${c} C = ${f} F`); //輸出
5
```

31.20 C = 88.16 F

4c81cad 21141003901~ Thu Mar 23 19:26:11 2023 +0800 W06-P2: temperature
convert from C to F

W06-P3: import students and sdata array and do sorting, find the highest and lowest score

The image shows a VS Code editor on the left and a Chrome DevTools console on the right. The VS Code editor displays a file named `p2_39.js` with the following code:

```

1 import { students, sdata } from './data_39.js'; //import輸入
2
3 console.log('sdata original', sdata);
4
5 sdata.sort(function(a,b){return b-a}); //sort:排序;a-b:小到大;b-a:大到小
6 console.log('sdata sorted', sdata);
7 console.log('The highest score: ${sdata[0]}');
8 console.log('The lowest score: ${sdata[sdata.length-1]}');
9
10 console.log('students', students);
11 const students2 = students.map((student) => { //const宣告 //map創建一個新數
12   // student.role = 'student';
13   return {...student, role: 'student'}; //...指原來全部欄位，繼續增新的
14 });
15
16 console.log('students2 original', students2);
17
18 students2.sort(function(a,b){return a.score - b.score});
19 console.log('students2 sorted', students2);
20
21 console.log('The lowest score: ${students2[0].score}');
22 console.log('The highest score: ${students2[students2.length-1].score}');

```

The Chrome DevTools console shows the output of the code:

```

sdata original ▶ (6) [90, 100, 60, 40, 20, 80] p2_39.js:3
sdata sorted ▶ (6) [100, 90, 80, 60, 40, 20] p2_39.js:6
The highest score: 100 p2_39.js:7
The lowest score: 20 p2_39.js:8
students
▼ (5) [{"id": 1, "name": "Qilin", "score": 100}, {"id": 2, "name": "Jackson", "score": 90}, {"id": 3, "name": "Mike", "score": 80}, {"id": 4, "name": "Lisa", "score": 52}, {"id": 5, "name": "Jessica", "score": 53}] p2_39.js:10
  length: 5
  [[Prototype]]: Array(0)
students2 original
▶ (5) [{"id": 1, "name": "Qilin", "score": 100, "role": "student"}, {"id": 2, "name": "Jackson", "score": 90, "role": "student"}, {"id": 3, "name": "Mike", "score": 80, "role": "student"}, {"id": 4, "name": "Lisa", "score": 52, "role": "student"}, {"id": 5, "name": "Jessica", "score": 53, "role": "student"}] p2_39.js:16
  length: 5
  [[Prototype]]: Array(0)
students2 sorted
▼ (5) [{"id": 1, "name": "Qilin", "score": 100, "role": "student"}, {"id": 2, "name": "Jackson", "score": 90, "role": "student"}, {"id": 3, "name": "Mike", "score": 80, "role": "student"}, {"id": 4, "name": "Lisa", "score": 52, "role": "student"}, {"id": 5, "name": "Jessica", "score": 53, "role": "student"}] p2_39.js:19
  length: 5
  [[Prototype]]: Array(0)
The lowest score: 52 p2_39.js:21
The highest score: 100 p2_39.js:22

```

8565d44 21141003901~ Thu Mar 23 20:27:52 2023 +0800 W06-P3: import students
and sdata array and do sorting, find the highest and lowest score

W06-P4: compute the average of students and sdata array

The image shows a development environment with VS Code on the left and Chrome DevTools on the right. The VS Code editor displays a file named `w06_39.md` with JavaScript code. The code includes:

- Logging the original `sdata` array.
- Sorting `sdata` using a comparison function: `(a,b){return b-a}`.
- Logging the highest and lowest scores from the sorted array.
- Mapping the `students` array to create `students2`, adding a `role` property.
- Sorting `students2` by score.
- Logging the highest and lowest scores from `students2`.
- Using `reduce` to calculate the average score of `students`, with a red box highlighting the function.
- Using `reduce` to calculate the average score of `sdata`, with a red box highlighting the function.

 The Chrome DevTools console on the right shows the output of these operations:

- The `students` array: `[{id: 1, name: 'Qilin', score: 100}, {id: 2, name: 'Jackson', score: 90}, {id: 3, name: 'Mike', score: 80}, {id: 4, name: 'Lisa', score: 52}, {id: 5, name: 'Jessica', score: 53}]`.
- The `sdata sorted` array: `[100, 90, 80, 60, 40, 20]`.
- The average of `students`: `75`.
- The average of `sdata`: `65`.

00be81a 21141003901~ Thu Mar 23 21:12:48 2023 +0800 W06-P4: compute the average of students and sdata array

W06-P5: Temperature convert C2F(), F2C() using Web interface

C2F

The image shows a development environment with VS Code on the left and a web browser on the right. The VS Code editor displays a file named `w06_39.md` with JavaScript code for a temperature converter. The code includes:

- Getting the input number and buttons from the DOM.
- Defining functions `c()` and `f()` to convert Celsius to Fahrenheit and Fahrenheit to Celsius respectively.
- Adding event listeners to the buttons.

 The web browser on the right shows the output of the code:

- A title "The Temperature Converter".
- An input field containing the value "25.2".
- Two buttons labeled "C" and "F".
- A result box showing "25.2 C = 77.36 F".

F2C

The screenshot shows a web browser window on the right and a code editor on the left. The browser displays a web page titled "The Temperature Converter". The page has a blue header with the title. Below the header, there is a white box containing a text input field with the value "77.36". Below the input field, there are two buttons: "C" (highlighted with a red box) and "F". Below these buttons, there is another white box containing the text "77.36 F = 25.20 C", which is also highlighted with a red box. The code editor on the left shows the JavaScript code for the application. The code includes variables for the input field, buttons, and output field, and functions for getting user input, outputting results, and converting temperatures. The "C" button's click event is handled by the "c" function, and the "F" button's click event is handled by the "f" function. The "f" function is highlighted with a red box.

94161ba 21141003901~ Thu Mar 23 22:06:04 2023 +0800 W06-P5: Temperature convert C2F(), F2C() using Web interface

W06-logs

The screenshot shows a terminal window with the command `git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2023-03-22"` and its output. The output lists several commits with their hashes, authors, dates, and commit messages. The commit messages are: "W06-P5: Temperature convert C2F(), F2C() using Web interface", "W06-P4: compute the average of students and sdata array", "W06-P3: import students and sdata array and do sorting, find the highest and lowest score", "W06-P2: temperature convert from C to F", and "W06-P1: Run w3school scores.find()". The commit messages are highlighted with a red box.

8bc9a01 211410039 Thu Mar 23 23:36:21 2023 +0800 w6-logs

git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2023-03-22" 8bc9a01 211410039 Thu Mar 23 23:36:21 2023 +0800 w6-logs 94161ba 21141003901~ Thu Mar 23 22:06:04 2023 +0800 W06-P5: Temperature convert C2F(), F2C() using Web interface 00be81a 21141003901~ Thu Mar 23 21:12:48 2023 +0800 W06-P4: compute the average of students and sdata array 8565d44 21141003901~ Thu Mar 23 20:27:52 2023 +0800 W06-P3: import students and sdata array and do sorting, find the highest and lowest score 4c81cad 21141003901~ Thu Mar 23 19:26:11 2023 +0800 W06-P2: temperature convert from C to F 8d4b326 21141003901~ Thu Mar 23 19:02:36 2023 +0800 W06-P1: Run w3school scores.find()