

Github URL

W06-P1: Run w3school scores.find();

```
<!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>
```

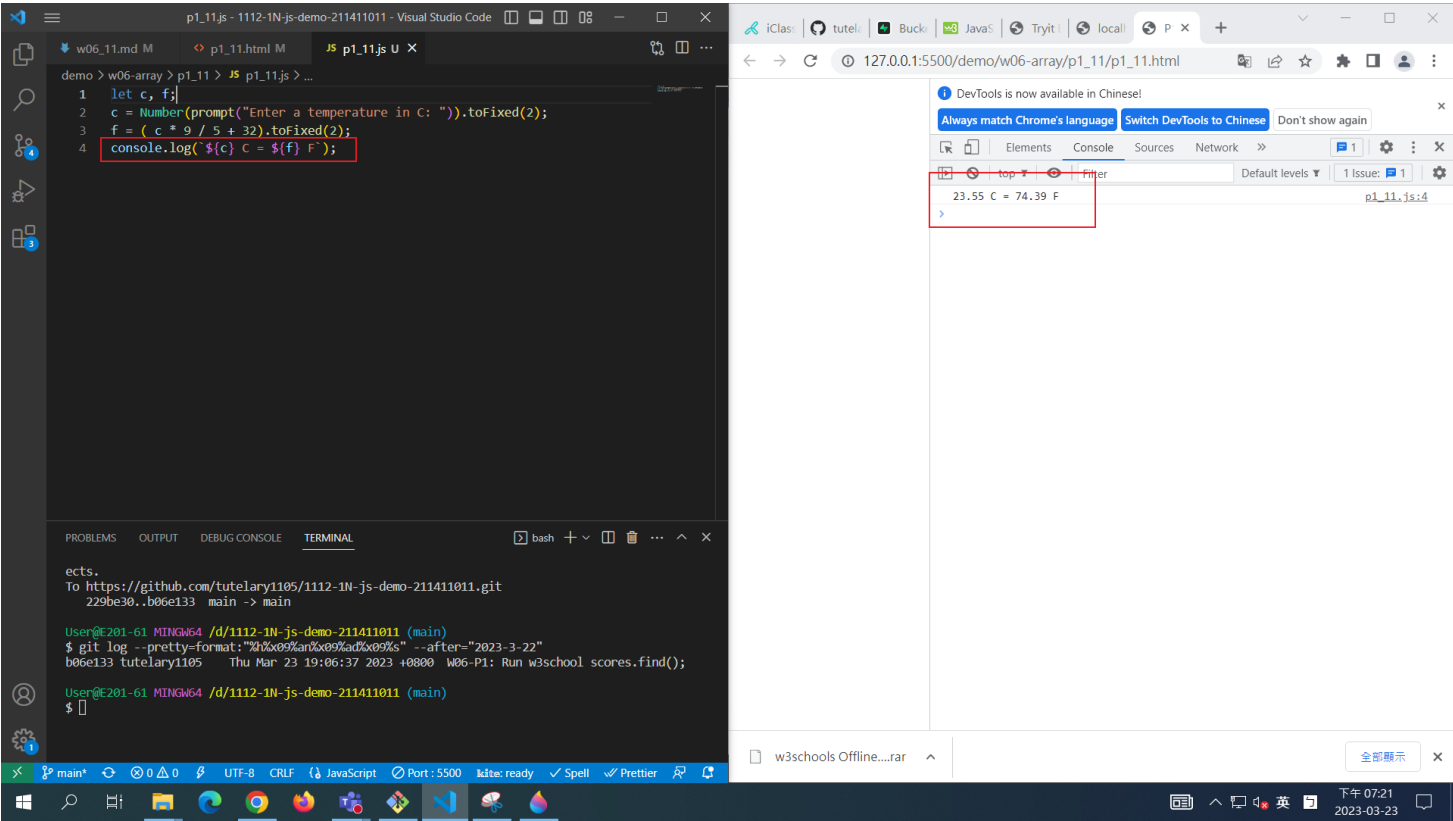
Click the button to check get the value of the first element in the array that has a value of 18 or more.

Try it

90

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

W06-P2: temperature convert from C to F



88f2b6c tutelary1105 Thu Mar 23 19:24:52 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

```
demo > w06-array > p2_11 > JS p2_11.js > ...
1 import { students, sdata } from './data_11.js';
2
3 // for sdata
4 console.log('sdata original', sdata);
5
6 sdata.sort( function(a,b){return b-a});
7 console.log('sdata sorted', sdata);
8 console.log('The highest score: ${sdata[0]}');
9 console.log('The lowest score: ${sdata[sdata.length-1]}');
10
11
12 // for students
13 console.log('students', students);
14
15 const students2 = students.map((student) => {
16   // student.role = 'student';
17   return {...student, role: 'student'};
18 });
19 console.log('students2 original', students2);
20
21 students2.sort(function(a,b){return a.score - b.score });
22 console.log('students2 sorted', students2);
23
24 console.log('The lowest score: ${students2[0].score}');
25 console.log('The highest score: ${students2[students2.length-1].score}');
```

```
$ git log --pretty-format:"%h%x09%an%x09%ad%x09%s" --after="2023-3-22"
88f2b6c tutelary1105 Thu Mar 23 19:24:52 2023 +0800 W06-P2: temperature convert from C to F
b06e133 tutelary1105 Thu Mar 23 19:06:37 2023 +0800 W06-P1: Run w3school scores.find();

User@E201-61 MINKWS4 /d/1112-1N-js-demo-211411011 (main)
$
```

127.0.0.1:5500/demo/w06-array/p2_11/p2_11.html

DevTools is now available in Chinese!

Always match Chrome's language Switch DevTools to Chinese Don't show again

Elements Console Sources Network

Filter

Default levels 1 Issue: 1

sdata original ▶ (6) [90, 100, 60, 40, 20, 80] p2_11.js:5

sdata sorted ▶ (6) [100, 90, 80, 60, 40, 20] p2_11.js:8

The highest score: 100 p2_11.js:9

The lowest score: 20 p2_11.js:10

students ▼ (5) [{"id": 1, "name": "peter", "score": 80}, {"id": 2, "name": "john", "score": 90}, {"id": 3, "name": "david", "score": 50}, {"id": 4, "name": "amy", "score": 30}, {"id": 5, "name": "andy", "score": 60}] p2_11.js:15

students2 original ▶ (5) [{"id": 1, "name": "peter", "score": 80, "role": "student"}, {"id": 2, "name": "john", "score": 90, "role": "student"}, {"id": 3, "name": "david", "score": 50, "role": "student"}, {"id": 4, "name": "amy", "score": 30, "role": "student"}, {"id": 5, "name": "andy", "score": 60, "role": "student"}] p2_11.js:22

students2 sorted ▶ (5) [{"id": 2, "name": "john", "score": 90, "role": "student"}, {"id": 1, "name": "peter", "score": 80, "role": "student"}, {"id": 5, "name": "andy", "score": 60, "role": "student"}, {"id": 3, "name": "david", "score": 50, "role": "student"}, {"id": 4, "name": "amy", "score": 30, "role": "student"}] p2_11.js:25

The lowest score: 30 p2_11.js:27

The highest score: [object Object] p2_11.js:28

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

The screenshot shows a web browser at `127.0.0.1:5500/demo/w06-array/p2_11/p2_11.html` with the Chrome DevTools console open. The console displays the output of a JavaScript application. The code in the background (partially visible) defines two arrays: `students` and `sdata`, and calculates their averages using `reduce`.

Console Log Output:

```
demo > w06-array > p2_11 > JS p2_11.js > ...  
24 console.log('students2 sorted', students2);  
25  
26 console.log('The lowest score: ${students2[0].score}');  
27 console.log('The highest score: ${students[students2.length-1].score}');  
28  
29  
30 console.log('students', students);  
31 const averageStudents = students.reduce( (total, student, index) => {  
32   console.log('index total', index, total);  
33   return total + student.score;  
34 }, 0) / students.length;  
35 console.log('average', averageStudents);  
36  
37  
38 console.log('sdata', sdata);  
39 const averageSdata = sdata.reduce( (total, sdata, index) => {  
40   console.log('index total', index, total);  
41   return total + sdata;  
42 }, 0) / sdata.length;  
43 console.log('average2', averageSdata);
```

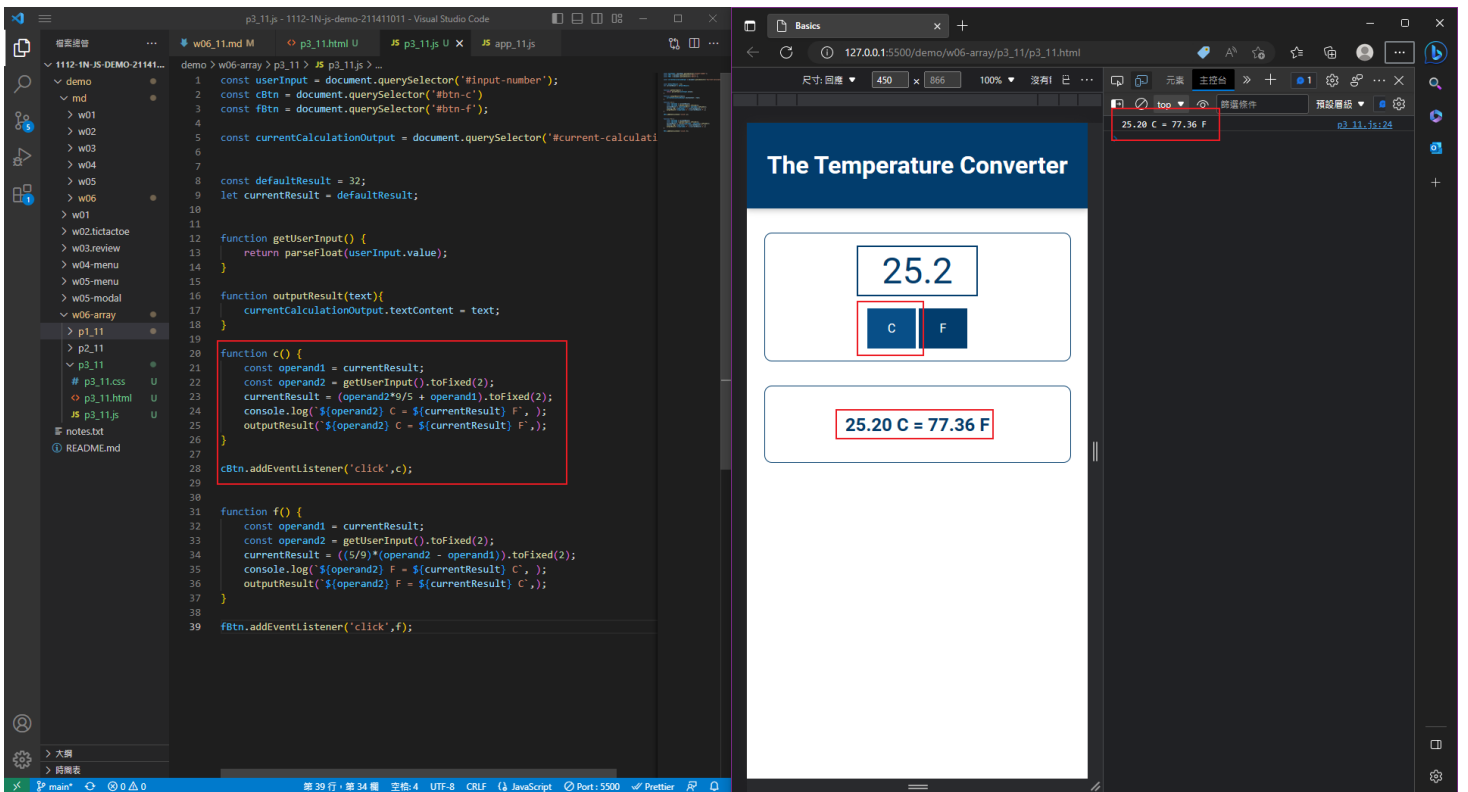
Console Log Output (Continued):

```
sdata original ▶ (6) [90, 100, 60, 40, 20, 80] p2_11.js:5  
sdata sorted ▶ (6) [100, 90, 80, 60, 40, 20] p2_11.js:8  
The highest score: 100 p2_11.js:9  
The lowest score: 20 p2_11.js:10  
students ▶ (5) [(-), (-), (-), (-), (-)] p2_11.js:14  
students2 original ▶ (5) [(-), (-), (-), (-), (-)] p2_11.js:21  
students2 sorted ▶ (5) [(-), (-), (-), (-), (-)] p2_11.js:24  
The lowest score: 30 p2_11.js:26  
The highest score: 60 p2_11.js:27  
students ▶ (5) [(-), (-), (-), (-), (-)] p2_11.js:30  
index total 0 0 p2_11.js:32  
index total 1 80 p2_11.js:32  
index total 2 170 p2_11.js:32  
index total 3 220 p2_11.js:32  
index total 4 250 p2_11.js:32  
average 62 p2_11.js:35  
sdata ▶ (6) [100, 90, 80, 60, 40, 20] p2_11.js:38  
index total 0 0 p2_11.js:40  
index total 1 100 p2_11.js:40  
index total 2 190 p2_11.js:40  
index total 3 270 p2_11.js:40  
index total 4 330 p2_11.js:40  
index total 5 370 p2_11.js:40  
average2 65 p2_11.js:43
```

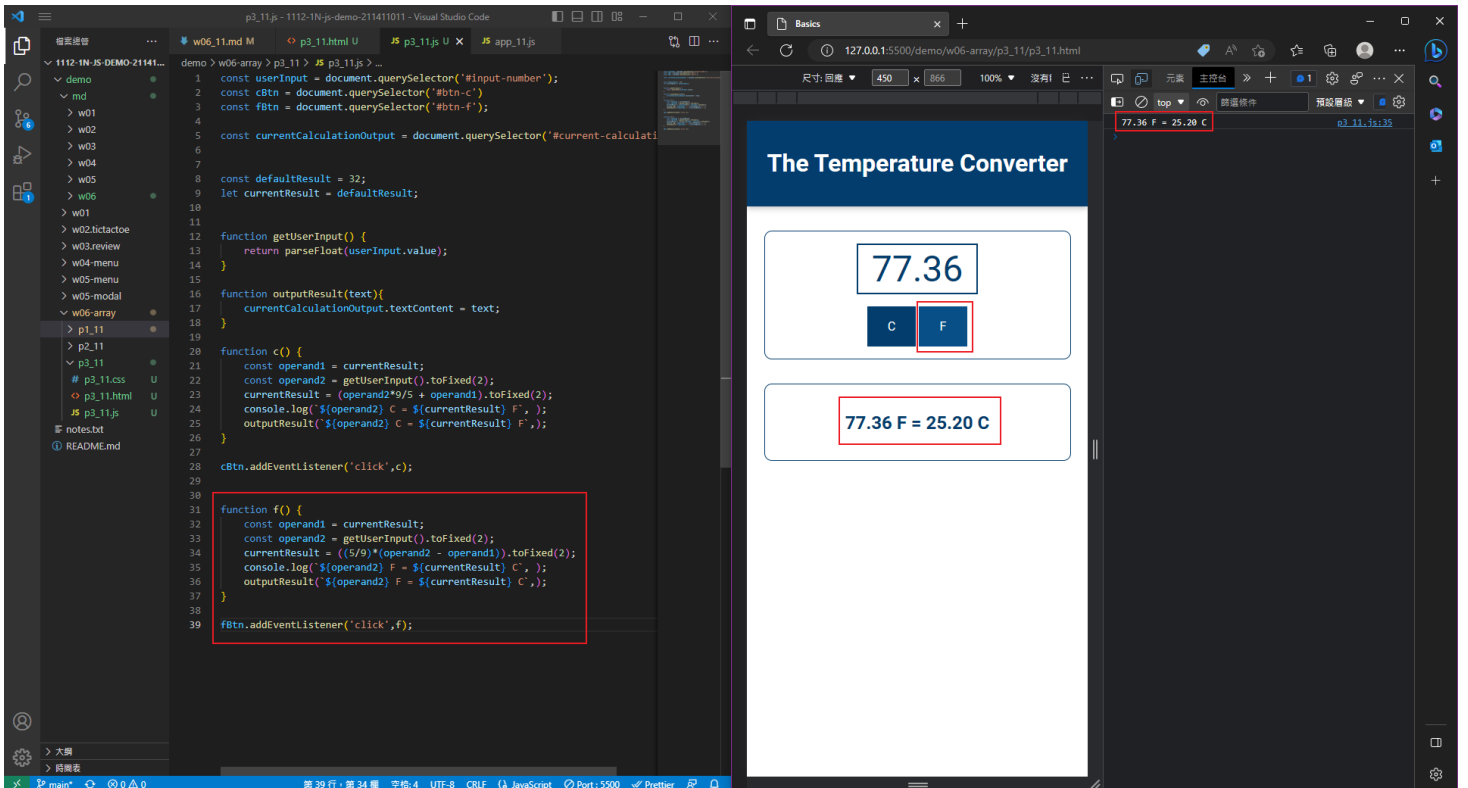
1c48410 tutelary1105 Thu Mar 23 20:58:23 2023 +0800 W06-P4: compute the average of students and sdata array

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

C2F



F2C



W06-logs

```
$ git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2023-3-22"
8e6dc1a tutelary1105    Fri Mar 24 18:24:49 2023 +0800    W06-P5: Temperature convert C2F(), F2C() using Web inte
rface
1c48410 tutelary1105    Thu Mar 23 20:58:23 2023 +0800    W06-P4: compute the average of students and sdata array
6094ec9 tutelary1105    Thu Mar 23 20:27:43 2023 +0800    W06-P3: import students and sdata array and do sorting,
find the highest and lowest score
88f2b6c tutelary1105    Thu Mar 23 19:24:52 2023 +0800    W06-P2: temperature convert from C to F
b06e133 tutelary1105    Thu Mar 23 19:06:37 2023 +0800    W06-P1: Run w3school scores.find();
```

```
$ git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2023-3-22"
```