Day 3, Today's Topic
The find helper

DAILY JS

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/* ================ Daily JS - Day 3 ================ */
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Day 3: The `find` helper

The `find` helper loops through an array to
look for a particular element (first occurance),
which passes the given criteria.

It runs the provided function over each element,
and if the particular element passes the criteria,
it is returned. If no element found, `undefined`
is returned.

This helper method does not change the
original array.

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  ## The Drawback

  The `find` helper will not work when you want
  to find more than one occurances, it will work
  only when you need the first occurance.

  ## Which element to choose?

  In the find helper we pass an iterator function
  which iterates over all the elements of the array.
  The function should have a condition, and the first
  element which satisfies that condition is returned.

  When the condition is passed, the iterator function
  must return `true`. The element at which the iterator
  function returns a `true` is taken to be
  the required element.


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/**
 * Given an array of numbers,
 * find the first element which is a multiple of 7
 */

const numbers = [1, 13, 15, 18, 28, 32, 47, 50];
let firstMultiple;

// Without the `find` helper
for (let i=0; i<numbers.length; i++) {
    if (numbers[i]%7 === 0) {
        firstMultiple = numbers[i];
        break;
    }
}
console.log (firstMultiple);

// With `find` helper (without arrow func)
let firstMultiple2 = numbers.find (function (number) {
    if (number%7 === 0) {
        return true;
    }
});
console.log (firstMultiple2);

// With `find` helper (with arrow func)
let firstMultiple3 = numbers.find (number => number%7 === 0);
console.log (firstMultiple3);


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/**
 * Given an array of objects having the data of students,
 * find the student having register number 9018
 */

const students = [
    { regNo: 0192, name: "Madhav" },
    { regNo: 1302, name: "Ram" },
    { regNo: 6723, name: "Rahul" },
    { regNo: 9018, name: "John" },
    { regNo: 4211, name: "Taylor" },
];

let wantedStudent =
    students.find (student => student.regNo === 9018);


console.log (wantedStudent);


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  ## Syntax

  ```js
  array.find(function(currentValue, index, arr),thisValue)
  ```


  - **currentValue**: Required.
     The value of the current element
  - **index**: Optional.
     The array index of the current element
  - **arr**: Optional.
     The array object the current element belongs to
  - **thisValue**: Optional.
     A value to be passed to the function to be
     used as its "this" value

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Thank you!

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