```
Javascript & Module (3) (Array)
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 Opush() - Adds one or more elements to the end of an
          array & returns the new length Of the array
  1et arr = [1, 2, 6];
  arr. push (3, 4, 5);
   Console. log (arr); 11[1,2,6,3,4,5]
(2) pop() - Removes the last element From an array
         & returns that element
  let arr= [1,2,6];
  arr. pop ();
  console.log (arr);
                      11[1,2]
(3 shift() - Removes the first element from an array
  and returns the element.
    const an = [1, 2,3];
    const arr2 = arr. shift();
    console-log (arr 2); 11 [2,3] 1
    Console- 10g (arr);
(9) unshirt() - Adds one or more element to the
                beginning of an array and return the
new length of an array.
 const arr = [1, 2, 3];
   arr. unshift (0, -1);
```

consolelog (arr);

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Stind-js - Returns the value of first element in

array that satisfies the provided

testing function, otherwise gundefined
is return.

const numbers $z \in [1, 2, 3, 4, 5]$; const X = numbers. find ((num) =) num 73); console.log (X); 114

(6) same (1) - Test whether at least one element in

the array passes the test implement ed

by the Foc. 9+ returns true if any

element passes the test of otherwise false

const numbers = [1, 2, 3, 4, 5];

const has Even = numbers - sum e ((num)=) has num =/=0).

Console log (has Even); // True

Pevery() - Test whether all elements in the array

pass the test implemented by the

provided know It returns true if all

elements pass the test otherwise Raise.

const numbers = [1,2,3,7,5];

const all Even = numbers. every ((num)=) num/2=0)

consule.log (alleven); // false

(B) sort() - Sorts the element of an array in place &
returns the Sorted array. The default Sort
order is built upon converting the elements
into strings, then comparing their sequences
of UTF-16 code units values

const num = (100, 20, 30, 10];

num . sort ((a, 6) =) a - 6);

consule.log (num); 11 [10, 20, 30, 100]

(9) includes () - Determines whether an array includes

a certain element, returning true or

false as appropriate.

Slice() returns a sheallow copy of a portion

of an array into a new array object

selected from start to end (and not

included). The original will not be

modified o

const num = [1,2,3,4,5];

const sliced= num. slice (0,2);

console.log (sliced);

console.log (num);

lici,2,3,4,5]

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map () - Creates a new array with the results
of calling a provided function on every
element in the calling carray.

const numbers = [1,2,3]; const N = numbers - map ((num)=) num *2); console.log(N); // [2,4,6]

neach element of the array,

resulting in a single output value

const numbers = [1,2,3,4,5];

const 80m = numbers reduce ((total, num) =)

total t num, 0);

console-log (sum); 11 15

elements that pass the test
implemented by the provided function.

const numbers = [192,3,4,5];

const hoseven = numbers, filter ((num)=) num 1/2 (

= ();

console.log(haseven);

[1] [2,4]

(19) for Each () - executes a provided for once for each array element.

const numbers = [1,2,8]; numbers = for Each ((num) =)

consule.log (num + 2)1; 12,46

a given element can be found in array,

or -1 if it is not present.

-

const fruits = [banana 1 a capple 1, 'orange', 'grape];

const apple Index = fruits = index of ('apple 1);

consule. log (apple Index);

(B) lastIndex Of () - returns the last index at which
a plement can be found in the

array gor -1 if it is not present

const fruits = ['apple', 'banana', 'grape'];

const banana Index1 = fruits last Index of ('banana');

console-log (be banana Index1); II = 2

(A) reverse() — Reverses the order of element

OF an array in place. The 1st element

becomes the last & vice-versas

numbers = [1,2,3];

numbers reverse();

Consule log (numbers);

[1] [3,291]

(18) concat() - returns a new array that includes

the elements from original array &

additional elements

const A = [1,2]; const B = [3,4]; const $C = A \cdot concat(B)$;

const (= A-concat (B);

11 [1,2,3,4]

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Specified sperator string

const Froits = ['banana 1, 'apple ', 'grape '] =

const joined = Froits join (', ');

console log (joined); II & banana, apple, grape '}

that specified number or array

4 Teturns Its element

const numbers = [1,2,3];

const string = Dumbers o to String ();

Consoler log (string); // 1,2,3'

Challenges '

(A) Declare an array named "teaflavours" that contain 5 the String "green tea ??, "black tea ??, "coolong tea?".

Access the 1st element of the array and store it in a variable "first Tea".

"oolong team];

console log (First Tea); 11 green tea

(B) Declare an array named "cities" containing "landon",

"Tokyo", "Paris", "New York". Access the 3rd element

in the array & store it in the variable named

"Favourite (ity".

let cities = ["london," 11 Tokyo", "Pavis", "New York"];

let FavouriteCity = cities (2];

consule.log (favouritecity);

11 Paris

(1) You have an array named "teatypes" containing "herbal tea", "white tea", "masala Chai?? . Change the 2nd element of array to "Jasmine Tea"

let teatypes = ["herbal tea", "white tea", "masala "]

teatypes [1] = "Jasmine Tea",

consolelog (teatypes)

(0) Declare any array named "cities Visited" containing
"Mumbai" and "Sydney". Add "Berlin" to the
array using the push method

cities Visited = [" Mumbal, Sydney"];

cities Visited. puth (" Berlin");

console. log (efties Visited); III ["Mumbal", "Sydney"]

"Berlin");

[For more challenges check GIT REPO]