

Practice Lesson 3

Exercise 1

Write a JavaScript function to get the first elements of an array. Passing a parameter **n** will return the first **n** elements of the array. If **n** is negative or equal to 0, return an empty array.

Input	Output
[1,2,3,4], 0	[]
[3,5,223,54,1,6,3,78,8,4], 3	[3,5,23]
[8,4,1,53], 7	[8,4,1,53]

Exercise 2

Create a function to get the union of two arrays.

Input	Output
['a', 'b', 'c'], ['a', 'b', 'c', 'd']	['a', 'b', 'c', 'd']
['a', 'b', 'c'], []	['a', 'b', 'c']
['a', 'b', 'c'], [1,2,4]	['a', 'b', 'c', 1, 2, 4]

Exercise 3

Create a function that takes an array of items, removes all duplicate items and returns a new array in the same sequential order as the old array (minus duplicates).

Input	Output
[1, 0, 1, 0]	[1, 0]
["The", "big", "cat"]	["The", "big", "cat"]
["John", "Taylor", "John"]	["John", "Taylor"]

Exercise 4

Create a function that takes a string, removes all **"special"** characters (e.g. ., !, @, #, \$, %, ^, &, \, *, (,)) and returns the new string. The only non-alphanumeric characters allowed are dashes -, underscores _ and spaces.

Input	Output
"The quick brown fox!"	"The quick brown fox"
"%fd76\$fd(-) 6GvKlO."	"fd76fd-6GvKlO"
"D0n\$c sed 0di0 du1"	"D0nc sed 0di0 du1"

Exercise 5

Create a function that takes an array of names and returns an array where only the first letter of each name is capitalized.

Notes:

- Don't change the order of the original array.
- Notice in the second example, **"MABELLE"** is returned as **"Mabelle"**.

Input	Output
["mavis", "senaida", "letty"]	["Mavis", "Senaida", "Letty"]
["samuel", "MABELLE", "letitia", "meridith"]	["Samuel", "Mabelle", "Letitia", "Meridith"]
["Sylvia", "Kristel", "Sharilyn", "Calista"]	["Sylvia", "Kristel", "Sharilyn", "Calista"]

Exercise 6

Write a function that pairs the first number in an array with the last, the second number with the second to last, etc.

Notes:

- If the array has an **odd length**, repeat the middle element twice for the last pair.
- Return an empty array if the input is an empty array.

Input	Output
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[1, 2, 3, 4, 5, 6, 7]	[[1, 7], [2, 6], [3, 5], [4, 4]]
[1,2,3,4,5,6]	[[1, 6], [2, 5], [3, 4]]
[5, 9, 8, 1, 2]	[[5,2], [9,1], [8,8]]
[]	[]