ARRAY HELPER METHODS

1) map ()

    purpose : transforms each element of an array into a new array

    Syntax: arr.map (callback (element, index, array))

    example: [1,2,3].map (item => item*2)

    output: [2,4,6]

2) filter()

    purpose: filters element of an array based on a condition

    syntax. arr. filter (callback (element, index, array))

    example: [1,2,3,4,5]. filter (item => item >2)

    output: [3,4,5]

3) reduce ()

    purpose : reduces an array to a single value using an
        accumulator

    syntax . arr. reduce (callback (accumulator, element, index, array),

                            initialvalue)

    example: [1,2,3]. reduce ((acc, item) => acc + item, 0)

    Output: 6

4) foreach()

purpose: Executes a provided function once for each array element

syntax: arr.foreach (callback (element, index, array))

example: [1,2,3].foreach(item => console.log(item))

output: 1, 2, 3 (in console)

5) find()

purpose: Returns the first element in an array that satisfies a condition

syntax: arr.find(callback(element, index, array))

example: [1,2,3,4,5].find(item => item > 2)

output: 3

6) sort()

purpose: sorts the elements of an array

syntax: array.sort(compare function (a,b))

example: [3,1,2].sort((a,b) => a-b)

output: [1,2,3]