Shape

Description automatically generated with medium confidence

1. **Map Function:**

* Create an array of numbers and use the map function to create a new array where each number is squared.
* Expected output: An array of squared numbers.

1. **Filter Function:**

* Use the filter function to create a new array that only contains numbers greater than 10 from an array of numbers.
* Expected output: An array of numbers greater than 10.

1. **forEach Function:**

* Create an array of strings and use the forEach function to print each string in uppercase to the console.
* Expected output: Each string in the array printed in uppercase.

1. **Map Function:**

* Create an array of objects and use the map function to create a new array of just one property from each object.
* Expected output: An array of the selected property values.

1. **Filter Function:**

* Use the filter function to create a new array that only contains objects with a specific property value from an array of objects.
* Expected output: An array of objects matching the specified property value.

1. **forEach Function:**

* Create an array of numbers and use the forEach function to add each number to a sum variable.
* Expected output: The sum of all numbers in the array.

Shape

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1. **Map Function:**

* Use the map function to create a new array where each string in an array of strings is reversed.
* Expected output: An array of reversed strings.

1. **Filter Function:**

* Create an array of numbers and use the filter function to create a new array that only contains prime numbers.
* Expected output: An array of prime numbers.

1. **forEach Function:**

* Use the forEach function to log each element of an array of booleans to the console with its index.
* Expected output: Each boolean value and its index printed to the console.

1. **Map Function:**

* Create an array of numbers and use the map function to create a new array where each number is converted to a string.
* Expected output: An array of numbers as strings.

1. **Filter Function:**

* Use the filter function to create a new array that only contains unique values from an array with duplicates.
* Expected output: An array of unique values.

1. **forEach Function:**

* Create an array of objects and use the forEach function to print each object’s property to the console.
* Expected output: Each object's property printed to the console.

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1. **Map Function:**

* Create an array of strings and use the map function to create a new array where each string is concatenated with its index.
* Expected output: An array of strings with their indices appended.

1. **Filter Function:**

* Use the filter function to create a new array that only contains numbers that are even from an array of numbers.
* Expected output: An array of even numbers.

1. **forEach Function:**

* Create an array of numbers and use the forEach function to multiply each number by 2 and log it to the console.
* Expected output: Each number multiplied by 2 printed to the console.

1. **Map Function:**

* Use the map function to create a new array where each number in an array of numbers is incremented by its index.
* Expected output: An array where each number is incremented by its index.

1. **Filter Function:**

* Create an array of objects and use the filter function to create a new array that only contains objects with a property value greater than 5.
* Expected output: An array of objects with the specified property value greater than 5.

1. **forEach Function:**

* Use the forEach function to log the length of each string in an array of strings to the console.
* Expected output: The length of each string printed to the console.

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1. **Map Function:**

* Create an array of strings and use the map function to create a new array where each string is capitalized.
* Expected output: An array of capitalized strings.

1. **Filter Function:**

* Use the filter function to create a new array that only contains values greater than the average value from an array of numbers.
* Expected output: An array of values greater than the average value.

1. **forEach Function:**

* Create an array of numbers and use the forEach function to divide each number by 2 and log it to the console.
* Expected output: Each number divided by 2 printed to the console.

1. **Map Function:**

* Use the map function to create a new array where each number in an array of numbers is converted to its absolute value.
* Expected output: An array of absolute values.

1. **Filter Function:**

* Create an array of objects and use the filter function to create a new array that only contains objects with a non-null property value.
* Expected output: An array of objects with non-null property values.

1. **forEach Function:**

* Use the forEach function to count how many strings in an array of strings contain the letter 'a'.
* Expected output: The count of strings containing the letter 'a'.

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1. **Map Function:**

* Create an array of numbers and use the map function to create a new array where each number is the remainder of division by 3.
* Expected output: An array of remainders.

1. **Filter Function:**

* Use the filter function to create a new array that only contains numbers that are perfect squares from an array of numbers.
* Expected output: An array of perfect squares.

1. **forEach Function:**

* Create an array of strings and use the forEach function to create a new array of objects with the original string and its length.
* Expected output: Each string with its length printed to the console.

1. **Map Function:**

* Use the map function to create a new array where each string in an array of strings is repeated twice.
* Expected output: An array of repeated strings.

1. **Filter Function:**

* Create an array of numbers and use the filter function to create a new array that only contains numbers less than the median value.
* Expected output: An array of numbers less than the median.

1. **forEach Function:**

* Use the forEach function to create a new array with the square root of each number from an array of numbers and log it.
* Expected output: Each number's square root printed to the console.

Shape

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1. **Map Function:**

* Create an array of objects and use the map function to create a new array where each object is augmented with a new property.
* Expected output: An array of objects with the new property added.

1. **Filter Function:**

* Use the filter function to create a new array that only contains truthy values from an array of mixed values.
* Expected output: An array of truthy values.

1. **forEach Function:**

* Create an array of numbers and use the forEach function to log each number's factorial to the console.
* Expected output: Each number's factorial printed to the console.

1. **Callback Function:**

* Create a function that takes another function as an argument and uses it to log a message to the console.
* Expected output: A message logged to the console using the passed-in function.

1. **Callback Function:**

* Create a function that takes a callback function and an array, and calls the callback with each element of the array.
* Expected output: The callback function called with each element of the array.

1. **Higher-Order Function:**

* Write a higher-order function that returns a function that multiplies its input by a fixed number.
* Expected output: A function that multiplies its input by the fixed number.

Shape

Description automatically generated with medium confidence

1. **Callback Function:**

* Create a function that takes two callback functions and a value, and calls the first callback if the value is positive and the second if it’s negative.
* Expected output: The appropriate callback function called based on the value.

1. **Higher-Order Function:**

* Write a function that takes an array and a callback, and returns a new array with the callback applied to each element.
* Expected output: A new array with the callback applied to each element.

1. **Callback Function:**

* Create a function that takes a callback and calls it twice, logging the result each time.
* Expected output: The result of the callback function logged twice.

1. **Higher-Order Function:**

* Write a higher-order function that takes a function and a number as arguments and returns a new function that applies the original function to its input multiple times.
* Expected output: A function that applies the original function multiple times to its input.