**Mutating Methods**

These methods modify the original array:

* **Adding Elements**:
  + push() - Adds elements to the end of the array.
  + unshift() - Adds elements to the beginning of the array.
* **Removing Elements**:
  + pop() - Removes the last element.
  + shift() - Removes the first element.
  + splice() - Adds/removes elements from a specific index.
* **Reordering Elements**:
  + reverse() - Reverses the array in place.
  + sort() - Sorts the array in place.

**2. Non-Mutating Methods**

These methods do not change the original array but return a new array or value:

* **Accessing/Subsets**:
  + slice() - Extracts a portion of the array.
  + concat() - Combines arrays.
* **Transforming**:
  + map() - Transforms each element and returns a new array.
* **Filtering**:
  + filter() - Filters elements based on a condition.
* **Flattening**:
  + flat() - Flattens nested arrays to a specified depth.
  + flatMap() - Maps each element and flattens the result by one level.

**3. Iterative/Looping Methods**

Used to iterate over arrays:

* **General Iteration**:
  + forEach() - Executes a function for each element (no return value).
* **Searching**:
  + find() - Returns the first element matching a condition.
  + findIndex() - Returns the index of the first element matching a condition.
* **Testing**:
  + some() - Returns true if at least one element matches a condition.
  + every() - Returns true if all elements match a condition.

**4. Searching Methods**

Used to locate elements:

* indexOf() - Finds the index of the first occurrence of a value.
* lastIndexOf() - Finds the index of the last occurrence of a value.
* includes() - Checks if the array includes a value.

**5. Reduction Methods**

Used to reduce the array to a single value:

* reduce() - Reduces the array from left to right.
* reduceRight() - Reduces the array from right to left.

**6. Utility Methods**

Miscellaneous operations:

* join() - Joins all elements into a string.
* toString() - Converts the array to a string.
* fill() - Fills elements with a static value.
* copyWithin() - Copies part of the array to another location within the same array.

**7. Creation Methods**

Used to create new arrays:

* Array.from() - Creates an array from an array-like or iterable object.
* Array.of() - Creates a new array instance with the provided arguments.