Travel Planner

Array methods

Required methods for the following exercises: map, filter, sort, reduce, spread, destructuring.

1. Retrieve Destinations

- Input: An array of travel destinations.
- Task: Return a new array that contains all the travel destinations.
- Example:

```
■ Input: ["New York", "London", "Paris"]
```

Expected Output: ["New York", "London", "Paris"]

2. Filter Flights by Destination

- Input: An array of flight objects, a destination string.
- Task: Return a new array containing only flights with the specified destination.
- Example:
 - Input:

```
[{ destination: "New York" }, { destination: "London" }, {
destination: "Paris" }], destination = "London"
```

Expected Output: [{ destination: "London" }]

3. Calculate Total Flight Duration

- Input: An array of flight objects.
- Task: Calculate and return the total duration of all flights.
- Example:
 - Input:

```
[{ duration: "3h 30m" }, { duration: "2h 45m" }, { duration: "1h 15m" }]
```

Expected Output: 7560 (total duration in seconds)

```
const getFlightDurationInSeconds = duration => {
  const [hours, minutes] = duration.split("h ");
  return parseInt(hours) * 3600 + parseInt(minutes) * 60;
};
```

4. Combine Flight Numbers and Destinations

- Input: An array of flight objects.
- Task: Return a new array with strings combining the flight number and the destination.
 Each string should be formatted as "{flightNumber} {destination}".
- Example:
 - Input:

```
[{ flightNumber: "FL001", destination: "New York" }, {
flightNumber: "FL002", destination: "London" }]
```

Expected Output: ["FL001 - New York", "FL002 - London"]

5. Update Flight Duration

- Input: An array of flight objects, a new duration value, and a flight number.
- Task: Update the duration of the specified flight in the array and return the updated array.
- Example:
 - Input:

```
[{ flightNumber: "FL001", duration: "3h 30m" }, { flightNumber:
"FL002", duration: "2h 45m" }], newDuration = "4h 15m",
flightNumber = "FL001"
```

Expected Output:

```
[{ flightNumber: "FL001", duration: "4h 15m" }, { flightNumber: "FL002", duration: "2h 45m" }]
```

6. Filter Flights by Duration

- **Input:** An array of flight objects, a minimum duration value.
- **Task:** Return a new array containing only flights with a duration equal to or greater than the provided value.
- Example:
 - Input:

```
[{ duration: "3h 30m" }, { duration: "2h 45m" }, { duration: "1h 15m" }], minDuration = 180
```

■ Expected Output: [{ duration: "3h 30m" }, { duration: "2h 45m" }]

7. Retrieve Flight Numbers

- **Input:** An array of flight objects.
- Task: Return a new array that contains all the flight numbers.
- Example:
 - Input:

```
[{ flightNumber: "FL001" }, { flightNumber: "FL002" }, {
flightNumber: "FL003" }]
```

Expected Output: ["FL001", "FL002", "FL003"]

8. Sort Flights by Duration

- **Input:** An array of flight objects.
- Task: Return a new array sorted by flight duration in ascending order.
- Example:
 - Input:

```
[{ duration: "3h 30m" }, { duration: "2h 45m" }, { duration: "1h 15m" }]
```

Expected Output:

```
[{ duration: "1h 15m" }, { duration: "2h 45m" }, { duration: "3h 30m" }]
```

9. Retrieve Flight Destinations

- Input: An array of flight objects.
- **Task:** Return a new array that contains all the destinations of the flights.
- Example:
 - Input:

```
[{ destination: "New York" }, { destination: "London" }, {
destination: "Paris" }]
```

Expected Output: ["New York", "London", "Paris"]