Music Player

Array methods

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

1. **Retrieve Song Titles**
   - **Input:** An array of song objects.
   - **Task:** Return a new array that contains only the titles of each song.
   - **Example:**
     - Input: `[{ title: "Bohemian Rhapsody" }, { title: "Hotel California" }, { title: "Imagine" }]`
     - Expected Output: `["Bohemian Rhapsody", "Hotel California", "Imagine"]`
2. **Filter Songs by Artist**
   - **Input:** An array of song objects, an artist name.
   - **Task:** Return a new array containing only songs by the specified artist.
   - **Example:**
     - Input: `[{ title: "Bohemian Rhapsody", artist: "Queen" }, { title: "Hotel California", artist: "Eagles" }, { title: "Imagine", artist: "John Lennon" }], artist = "Queen"`
     - Expected Output: `[{ title: "Bohemian Rhapsody", artist: "Queen" }]`
3. **Calculate Total Song Duration**
   - **Input:** An array of song objects.
   - **Task:** Calculate and return the total duration of all songs.
   - **Example:**
     - Input: `[{ duration: "5:55" }, { duration: "6:30" }, { duration: "3:02" }]`
     - Expected Output: `908` (total duration in seconds)

```
> Helper function for Exercise 3: Get Song Duration in Seconds
```

```
const getSongDurationInSeconds = (duration) => {
    const [minutes, seconds] = duration.split(':');
    return (parseInt(minutes) * 60 + parseInt(seconds));
};
```

4. **Combine Song Titles and Artists**

    - **Input:** An array of song objects.
    - **Task:** Return a new array with strings combining the song title and its artist. Each string should be formatted as "{title} - {artist}".
    - **Example:**
        - Input:
          `[{ title: "Bohemian Rhapsody", artist: "Queen" }, { title: "Hotel California", artist: "Eagles" }]`
        - Expected Output:
          `["Bohemian Rhapsody - Queen", "Hotel California - Eagles"]`

5. **Update Song Duration**

    - **Input:** An array of song objects, a new duration value, and a song title.
    - **Task:** Update the duration of the specified song in the array and return the updated array.
    - **Example:**
        - Input:
          `[{ title: "Bohemian Rhapsody", duration: "5:55" }, { title: "Hotel California", duration: "6:30" }], newDuration = "4:15", title = "Bohemian Rhapsody"`
        - Expected Output:
          `[{ title: "Bohemian Rhapsody", duration: "4:15" }, { title: "Hotel California", duration: "6:30" }]`

6. **Filter Songs by Duration**

    - **Input:** An array of song objects, a minimum duration value.

- **Task:** Return a new array containing only songs with a duration equal to or greater than the provided value.
- **Example:**
  - Input: `[{ duration: "5:55" }, { duration: "6:30" }, { duration: "3:02" }], minDuration = 4`
  - Expected Output: `[{ duration: "5:55" }, { duration: "6:30" }]`

7. **Retrieve Song Artists**

- **Input:** An array of song objects.
- **Task:** Return a new array that contains all the artists of the songs.
- **Example:**
  - Input: `[{ artist: "Queen" }, { artist: "Eagles" }, { artist: "John Lennon" }]`
  - Expected Output: `["Queen", "Eagles", "John Lennon"]`

8. **Sort Songs by Duration**

- **Input:** An array of song objects.
- **Task:** Return a new array sorted by song duration in ascending order.
- **Example:**
  - Input: `[{ duration: "5:55" }, { duration: "6:30" }, { duration: "3:02" }]`
  - Expected Output: `[{ duration: "3:02" }, { duration: "5:55" }, { duration: "6:30" }]`

9. **Retrieve Song Lyrics**

- **Input:** An array of song objects.
- **Task:** Return a new array that contains all the lyrics of the songs.
- **Example:**
  - Input: `[{ lyrics: "Is this the real life? Is this just fantasy?" }, { lyrics: "On a dark desert highway, cool wind in my hair" }]`

- Expected Output:

  ```
  ["Is this the real life? Is this just fantasy?", "On a dark desert highway, cool wind in my hair"]
  ```