Travel Planner

Array Methods - Extra

1. **Group Trips by Destination**

   - **Input:** An array of trip objects, where each object has properties: id, traveler, destination, days, and cost.
   - **Task:** Write a function to group trips by their destination. Return an object where keys are destinations and values are arrays of trips going to that destination.
   - **Example Input:**

   ```
   [
     {id: 1, traveler: 'John Doe', destination: 'Paris', days: 5,
   cost: 1200},
     {id: 2, traveler: 'Jane Doe', destination: 'Paris', days: 7,
   cost: 1400},
     {id: 3, traveler: 'John Doe', destination: 'London', days: 3,
   cost: 900}
   ]
   ```

   - **Example Output:**

   ```
   {
     'Paris': [
       {id: 1, traveler: 'John Doe', destination: 'Paris', days: 5,
   cost: 1200},
       {id: 2, traveler: 'Jane Doe', destination: 'Paris', days: 7,
   cost: 1400}
     ],
     'London': [
       {id: 3, traveler: 'John Doe', destination: 'London', days: 3,
   cost: 900}
     ]
   }
   ```

2. **Find Longest Trip**

- **Input:** An array of trip objects.
- **Task:** Write a function to find the trip with the maximum number of days.
- **Example Input:** The same as Exercise 1.
- **Example Output:**

```
{id: 2, traveler: 'Jane Doe', destination: 'Paris', days: 7, cost: 1400}
```

3. Find Most Expensive Trip

- **Input:** An array of trip objects.
- **Task:** Write a function to find the trip with the maximum cost.
- **Example Input:** The same as Exercise 1.
- **Example Output:**

```
{id: 2, traveler: 'Jane Doe', destination: 'Paris', days: 7, cost: 1400}
```

4. Count Trips by Traveler

- **Input:** An array of trip objects.
- **Task:** Write a function to return an object where keys are traveler names and values are the number of trips they have.
- **Example Input:** The same as Exercise 1.
- **Example Output:** `{ 'John Doe': 2, 'Jane Doe': 1 }`

5. Find All Unique Destinations

- **Input:** An array of trip objects.
- **Task:** Write a function to return an array of all unique destinations from the trips.
- **Example Input:** The same as Exercise 1.
- **Example Output:** `['Paris', 'London']`