**Advanced Functions: Reduce**

**Instructions**

To complete this Practice problem, you will need to get all the tests to pass. To do so, complete the following:

* Complete each function as described below.
* Use the .reduce() method in each function.

This practice problem should not take you longer than about 25 minutes. If you spend longer than that, reach out for help!

**Dataset**

Assume for all of the following problems that parks refers to a dataset that looks similar to the following.

const parks = [

{

name: "Canyonlands",

areaInSquareKm: 1366.2,

location: { state: "Utah" },

},

{

name: "Crater Lake",

areaInSquareKm: 741.5,

location: { state: "Oregon" },

},

{

name: "Zion",

areaInSquareKm: 595.9,

location: { state: "Utah" },

},

];

**squareKmTotal()**

Add up all of the areaInSquareKm values from each park object.

squareKmTotal(parks); *//> 2703.6*

**parkNameAndState()**

Return an object where each key is the name of a park and each value is the state that park is in.

parkNameAndState(parks);

*/\**

*{*

*Canyonlands: "Utah",*

*"Crater Lake": "Oregon",*

*Zion: "Utah*

*}*

*\*/*

**parkByState()**

Return an object where each key is the state and each value is an array of each park object associated with that state.

parkByState(parks);

*/\**

*{*

*Utah: [*

*{*

*name: "Canyonlands",*

*areaInSquareKm: 1366.2,*

*location: { state: "Utah" },*

*},*

*{*

*name: "Zion",*

*areaInSquareKm: 595.9,*

*location: { state: "Utah" },*

*},*

*],*

*Oregon: [*

*{*

*name: "Crater Lake",*

*areaInSquareKm: 741.5,*

*location: { state: "Oregon" },*

*},*

*]*

*}*

*\*/*

**Note:** Writing this function is tricky! Remember that you can write whatever code you want inside of the function passed to .reduce().

**Tips**

* You may complete this challenge on your own machine before uploading it to Qualified.
* Reference the related checkpoint for help on completing this Practice problem.
* If you need help, contact your mentor or speak with your peers in Slack.