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[**self-assessment2B.md**](https://gist.github.com/hr-kevingavino/a03afd717cf0a3cf24b022449a2edb29#file-self-assessment2b-md)

**Exercises**

**Sales Team**

You are managing a sales team and you are interested is analyzing some data related to their age and total sales. Take a moment to review the following data structure you will be analyzing:

var salesTeam = [ {"name":"Aleen Atkins","salesInfo":{"totalSales":"$2314","numSales":19},"yearBorn":1991}, {"name":"Alvaro Angelos","salesInfo":{"totalSales":"$1668","numSales":17},"yearBorn":1962}, {"name":"Denese Dossett","salesInfo":{"totalSales":"$9248","numSales":18},"yearBorn":1988}, {"name":"Douglas Denney","salesInfo":{"totalSales":"$5058","numSales":15},"yearBorn":1964}, {"name":"Earline Erickson","salesInfo":{"totalSales":"$18876","numSales":11},"yearBorn":1998}, {"name":"Herman Hazell","salesInfo":{"totalSales":"$2746","numSales":12},"yearBorn":1992}, {"name":"Homer Hirth","salesInfo":{"totalSales":"$474","numSales":19},"yearBorn":1991}, {"name":"Hwa Heidt","salesInfo":{"totalSales":"$9607","numSales":24},"yearBorn":1964}, {"name":"Hyon Hampshire","salesInfo":{"totalSales":"$13598","numSales":23},"yearBorn":1971}, {"name":"Issac Ingerson","salesInfo":{"totalSales":"$5225","numSales":13},"yearBorn":1972}, {"name":"Jeraldine Joplin","salesInfo":{"totalSales":"$2891","numSales":10},"yearBorn":1978}, {"name":"Jin Jeffrey","salesInfo":{"totalSales":"$14402","numSales":14},"yearBorn":2000}, {"name":"Joleen Jolin","salesInfo":{"totalSales":"$15736","numSales":17},"yearBorn":1972}, {"name":"Jude Jarrett","salesInfo":{"totalSales":"$7557","numSales":21},"yearBorn":1964}, {"name":"Magda Mireles","salesInfo":{"totalSales":"$1498","numSales":10},"yearBorn":1999}, {"name":"Mistie Montealegre","salesInfo":{"totalSales":"$6920","numSales":23},"yearBorn":1986}, {"name":"Nancy Napoli","salesInfo":{"totalSales":"$5255","numSales":24},"yearBorn":1968}, {"name":"Regine Rohrbaugh","salesInfo":{"totalSales":"$7881","numSales":21},"yearBorn":1984}, {"name":"Rolando Riebel","salesInfo":{"totalSales":"$8573","numSales":20},"yearBorn":1982}, {"name":"Scarlett Stagg","salesInfo":{"totalSales":"$7126","numSales":11},"yearBorn":1981}, {"name":"Sherron Strawn","salesInfo":{"totalSales":"$8848","numSales":13},"yearBorn":1981}, {"name":"Susan Shilling","salesInfo":{"totalSales":"$8542","numSales":17},"yearBorn":1988}, {"name":"Tama Tworek","salesInfo":{"totalSales":"$9200","numSales":12},"yearBorn":2001}, {"name":"Tonisha Taunton","salesInfo":{"totalSales":"$5219","numSales":19},"yearBorn":1976}, {"name":"Vergie Villescas","salesInfo":{"totalSales":"$8712","numSales":10},"yearBorn":1992} ];

**Part 1**

Write a function, isTeenager, that takes in an array of information, salesTeam, and returns an array that lists the first names of each member of the sales team that is a teenager. You can assume the current year is 2017. A 'teenager' in this case is someone between the ages of 13 - 19, inclusive.

function isTeenager(salesTeam) { }

**Part 2**

Copy/paste in the following assertObjectsEqual function and its invocation. If you confirm that isTeenager passes the test, move to Part 3. If you are receiving an error message, correct your isTeenager function.

function assertObjectsEqual(actual, expected, testName) { if (JSON.stringify(actual) === JSON.stringify(expected)) { console.log('Test passed'); return true; } else { console.log('Test ['+testName+'] failed: expected ', expected, ' but got, ', actual ); return false; } } assertObjectsEqual(isTeenager(salesTeam), ["Earline", "Jin", "Magda", "Tama"], "Should return a list of all teenagers on the Sales Team");

**Part 3**

Write a function, tenThousandClub, that takes in an array of information, salesTeam, and returns an array that lists the first names of each member of the sales team that has sales greater than $10,000.

Start this part by writing a single invocation of the assertObjectsEqual function before you write the body of the tenThousandClub function. Once you complete writing the body of tenThousandClub you should see your test pass.

Hint: I recommend you write a helper function, salesToNumber, that converts the sales string to a number. Feel free to look up parseInt() and slice() on MDN if you don't remember how they work.

**Part 4**

Write a function highestAverageSales, that takes in the array salesTeam and returns a string with the person's full name along with how much their average sale amount is. Round this number to the nearest dollar.

Sample output: "Tina Fey has the highest average sales at $100 per sale."

Hint: Similar to the previous problem, create a helper function getAverageSaleAmount that calculates the average sales amount of a person.

[](https://gist.github.com/Bjg813)

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