

Challenge 2/14:

```
1 // Write your code here:
2 const sentence = ['sense.', 'make', 'all', 'will', 'This'];
3
4 ▼ const reverseArray = sentence => {
5   let reversed = [];
6   for (let i = sentence.length - 1; i >= 0; i--) {
7     reversed.push(sentence[i]);
8   }
9   return reversed
10 }
11 // When you're ready to test your code, uncomment the below and
    run:
12 console.log(reverseArray(sentence))
13 // Should print ['This', 'will', 'all', 'make', 'sense.'];
14
```

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```
1 // Write your code here:
2 const animals = ['panda', 'turtle', 'giraffe', 'hippo', 'sloth',
    'human'];
3
4 ▼ const convertToBaby = (animals) => {
5   const babyarray=[]
6   for (let i=0; i < animals.length; i++){
7     babyarray.push('baby ' + animals[i]);
8   }
9   return babyarray
10 }
11
12 console.log(convertToBaby(animals));
13
```

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```
1 const veggies = ['broccoli', 'spinach', 'cauliflower',
    'broccoflower'];
2
3 ▼ const politelyDecline = (veg) => {
4   console.log('No ' + veg + ' please. I will have pizza with
    extra cheese.');
```

```
5 }
6
7 // Write your code here:
8 ▼ const declineEverything = veggies => {
9   veggies.forEach(politelyDecline);
10 }
11 console.log(declineEverything(veggies));
12
13 ▼ const acceptEverything = veggies => {
14   veggies.forEach(e => {
15     console.log(`Ok, I guess I will eat some ${e}.`);
16   })
17 }
18 console.log(acceptEverything(veggies));
```

3/14

```
1 // Write your code here:
2 const aliens = ["Blorgous", "Glamyx", "Wegord", "SpaceKing"];
3
4 ▼ const greetAliens = aliens => {
5   for (let i = 0; i < aliens.length; i++){
6     console.log(`Oh powerful ' +aliens[i] + ', we humans offer
    our unconditional surrender!`);
7     console.log(`Oh powerful ${aliens[i]}, we humans offer our
    unconditional surrender!`);
8   }
9 }
10
11 greetAliens(aliens);
12
```

5/14

```
1 const numbers = [5, 3, 9, 30];
2
3 ▼ const smallestPowerOfTwo = arr => {
4   let results = [];
5   // The 'outer' for loop:
6   for (let i = 0; i < arr.length; i++) {
7     number = arr[i];
8
9     // The 'inner' while loop:
10    // We needed to create a new variable!
11    let j = 1;
12    while (j < number) {
13      j = j * 2;
14    }
15    results.push(j);
16  }
17  return results
18 }
19 console.log(smallestPowerOfTwo(numbers));
```

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```
1 const numbers = [2, 7, 9, 171, 52, 33, 14]
2
3 const toSquare = num => num * num
4
5 // Write your code here:
6 const squareNums = numbers => numbers.map(toSquare)
7
8 console.log(squareNums(numbers));
```

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```
1 // Write your code here:
2 const greetings = ['hello', 'hi', 'heya', 'oi', 'hey', 'yo'];
3 const shoutGreetings = greet => greetings.map(word => word.
  toUpperCase() + '!');
4
5 console.log(shoutGreetings(greetings));
6
```

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```
1 // Write your code here:
2 const years = [1970, 1999, 1951, 1982, 1963, 2011, 2018, 1922]
3
4 const sortYears = years => years.sort((x,y) => y - x);
5
6 console.log(sortYears(years));
```

10/14

```
1 // Write your code here:
2
3 const justCoolStuff = (arr1, arr2) => arr1.filter(item => arr2.
  includes(item))
4
5
6
7 // Feel free to uncomment the code below to test your function
8
9 const coolStuff = ['gameboys', 'skateboards', 'backwards hats',
  'fruit-by-the-foot', 'pogs', 'my room', 'temporary tattoos'];
10
11 const myStuff = ['rules', 'fruit-by-the-foot', 'wedgies',
  'sweaters', 'skateboards', 'family-night', 'my room', 'braces',
  'the information superhighway'];
12
13 console.log(justCoolStuff(myStuff, coolStuff))
14 // Should print [ 'fruit-by-the-foot', 'skateboards', 'my room' ]
15
```

11/14

```
1 // Write your code here:
2
3
4 const isTheDinnerVegan = arr => arr.every(food => food.source ===
  'plant');
5
6
7
8 // Feel free to comment out the code below to test your function
9
10 const dinner = [{name: 'hamburger', source: 'meat'}, {name:
  'cheese', source: 'dairy'}, {name: 'ketchup', source: 'plant'},
  {name: 'bun', source: 'plant'}, {name: 'dessert twinkies',
  source: 'unknown'}];
11
12 console.log(isTheDinnerVegan(dinner));
13
14 // Should print false
```

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```
1 const speciesArray = [ {speciesName:'shark', numTeeth:50},
  {speciesName:'dog', numTeeth:42}, {speciesName:'alligator',
  numTeeth:80}, {speciesName:'human', numTeeth:32}];
2
3 // Write your code here:
4
5 function sortSpeciesByTeeth(arr) {
6   const compareTeeth = (speciesObj1, speciesObj2) =>
  speciesObj1.numTeeth > speciesObj2.numTeeth
7   return arr.sort(compareTeeth)
8 }
9
10
11
12 // Feel free to comment out the code below when you're ready to
  test your function!
13
14 console.log(sortSpeciesByTeeth(speciesArray))
15
16 // Should print:
17 // [ { speciesName: 'human', numTeeth: 32 },
18 //   { speciesName: 'dog', numTeeth: 42 },
19 //   { speciesName: 'shark', numTeeth: 50 },
20 //   { speciesName: 'alligator', numTeeth: 80 } ]
21
```

13/14

```
1 // Write your code here:
2
3
4 function findMyKeys(arr) {
5   let index = -1;
6   for (let i = 0; i < arr.length; i++) {
7     if (arr[i] === 'keys') {
8       index = i
9       break
10    }
11  }
12  return index
13 }
14
15
16
17 // Feel free to comment out the code below to test your function
18
19 const randomStuff = ['credit card', 'screwdriver', 'receipt',
  'gum', 'keys', 'used gum', 'plastic spoon'];
20
21 console.log(findMyKeys(randomStuff))
22 console.log(randomStuff[findMyKeys(randomStuff)])
23 // Should print 4
```

14/14

```
1 // Final solution:
2 ▼ const dogFactory = (name, breed, weight) => {
3   ▼ return {
4     _name: name,
5     _breed: breed,
6     _weight: weight,
7   ▼ get name() {
8     return this._name;
9   },
10  ▼ set name(newName) {
11    this._name = newName;
12  },
13  ▼ get breed() {
14    return this._breed;
15  },
16  ▼ set breed(newBreed) {
17    this._breed = newBreed;
18  },
19  ▼ get weight() {
20    return this._weight;
21  },
22  ▼ set weight(newWeight) {
23    this._weight = newWeight;
24  },
25  ▼ bark() {
26    return 'ruff! ruff!'
27  },
28  ▼ eatTooManyTreats() {
29    this._weight++
30  }
31  }
32 }
33
34 console.log(dogFactory('BB', 'Boston Terrior', '17lbs'));
35
```