



**Flavours
of Arrow
Functions**

ES5 vs ES6

By using arrow function we avoid having to type the **function** keyword, **return** keyword (it's implicit in arrow functions), and curly brackets.

//ES5

```
add = function(x, y) {  
    return x + y;  
}  
console.log(add(1,2)); // prints 3
```

//ES6

```
add = (x,y) => x + y  
console.log(add(1,2)); // prints 3
```

Some Tasty Examples

```
1
2 var newFlavour = flavourName => ({flavour: flavourName});
3
4
5 var getTotalIceNumber = (iceLollies, iceCreams) => iceLollies+iceCreams;
6
7
8 var sortIceFlavours = (TotalIceFlavours) => {return TotalIceFlavours.sort()};
9
10
11
12
```

Basic Syntax

```
(param1, param2, ..., paramN) => { statements }
```

```
(param1, param2, ..., paramN) => expression
```

```
// equivalent to: (param1, param2, ..., paramN) => { return expression; }
```

```
// Parentheses are optional when there's only one parameter name:
```

```
(singleParam) => { statements }
```

```
singleParam => { statements }
```

```
singleParam => expression
```

```
// The parameter list for a function with no parameters should be written with a pair of parentheses.
```

```
() => { statements }
```

Advanced Syntax

```
// Parenthesize the body of function to return an object literal expression:  
params => ({foo: bar})
```

```
// Rest parameters and default parameters are supported  
(param1, param2, ...rest) => { statements }  
(param1 = defaultValue1, param2, ..., paramN = defaultValueN) => { statements }
```

```
// Destructuring within the parameter list is also supported  
let f = ([a, b] = [1, 2], {x: c} = {x: a + b}) => a + b + c;  
f();  
// 6
```

Raw Horse Flesh Flavour

Instructions

Output

Time: 405ms Passed: 9 Failed: 0

Test Results:

▼ Should handle basic arrays

Test Passed: Value == '[]'

Test Passed: Value == '[]'

Test Passed: Value == '[1, 3, 5]'

Test Passed: Value == '[1, 3, 5]'

Completed in 7ms

▼ Should handle random arrays

Test Passed: Value == '[1, 35, 43, 81, 45, 25, 17, 7]'

Test Passed: Value == '[47, 41, 63, 7]'

Test Passed: Value == '[37, 97, 21, 57]'

Test Passed: Value == '[87, 97, 97]'

Test Passed: Value == '[95, 69, 31, 99, 47]'

Completed in 1ms

You have passed all of the tests! :)

Solution:

```
1 * function odds(values){
2   // arrow it
3   * return values.filter((values) => {if (values%2 !== 0) {return values}});
4 }
```

Submitting your final solution...

Sample Tests:

```
1 Test.assertSimilar(odds([]), [], "Should handle empty array");
2 Test.assertSimilar(odds([2, 4, 6]), [], "Should handle array with even numbers only");
3 * Test.assertSimilar(odds([1, 3, 5]), [1, 3, 5], "Should handle array with odd numbers only");
4 * Test.assertSimilar(odds([1, 2, 3, 4, 5, 6]), [1, 3, 5], "Should handle mixed array");
```

SKIP

UNLOCK SOLUTIONS

DISCUSS (5)

RESET

RUN SAMPLE TESTS

SUBMIT FINAL