

# Home Task:

☆ 257

👤 61

📈 75% of 919

👥 6,507 of 9,237

👤 user5854572

🚩 4 Issues Reported

Instructions

Output

Create the function `prefill` that returns an array of `n` elements that all have the same value `v`. See if you can do this *without* using a loop.

You have to validate input:

- `v` can be *anything* (primitive or otherwise)
- if `v` is omitted, fill the array with `undefined`
- if `n` is 0, return an empty array
- if `n` is anything other than an **Integer** or **integer-formatted string** (e.g. `'123'`) that is `>=0`, throw a `TypeError`

When throwing a `TypeError`, the message should be `n is invalid`, where you replace `n` for the actual value passed to the function.

Code Examples

```
prefill(3,1) --> [1,1,1]

prefill(2,"abc") --> ['abc','abc']

prefill("1", 1) --> [1]
```

JavaScript

Node v10.x

VIM

EMACS

Solution:

```
1 • function prefill(n, v) {
2   if(n === 0 || n === '0') return [];
3
4   if(!parseInt(n) || n < 0 ){
5
6     let TypeError = new TypeError();
7     TypeError.name = "TypeError";
8     TypeError.message = n + " is invalid";
9     throw TypeError
10  };
11
12  return new Array(n).fill(v);
13 }
```

Sample Tests:

```
1 • describe("Tests", () => {
2   it("test", () => {
3     Test.assertSimilar(prefill(3,1), [1,1,1]);
4     Test.assertSimilar(prefill(2,'abc'), ['abc','abc']);
5     Test.assertSimilar(prefill('1',1), [1]);
6     Test.assertSimilar(prefill(3, prefill(2, '2d')), [['2d','2d'],['2d','2d']]);
7     var errorThrown = false;
8     try {prefill('xyz', 1)}
9     catch(e) {
10      Test.assertEquals(e.name, "TypeError");
11    }
12  });
13 }
```

SKIP

UNLOCK SOLUTIONS

DISCUSS (65)

RESET

TEST

ATTEMPT

Beta

A function within a function

☆ 162

👤 57

📈 81% of 1,620

👥 9,174 of 13,476

👤 amrdraz

🚩 5 Issues Reported

Instructions

Output

Given an input `n`, write a function `always` that returns a **function** which returns `n`. Ruby should return a **lambda** or a **proc**.

```
var three = always(3);
three(); // returns 3
```

FUNDAMENTALS

CLOSURES

BASIC LANGUAGE FEATURES

SCOPES

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JavaScript

Node v8.1.3

VIM

EMACS

Solution:

```
1 // return a function that returns n
2 • function always (n) {
3   return () => n;
4 }
```

Good Job! You may take your time to refactor/comment your solution. Submit when ready.

Sample Tests:

```
1 • describe("Tests", () => {
2   it("test", () => {
3
4     Test.expect(always(true)(), 'A function that is always true will return true')
5   });
6 });
7
```

SKIP

UNLOCK SOLUTIONS

DISCUSS (47)

RESET

TEST

SUBMIT

5k

Partition On

☆ 93 ● 28 ↗ 73% of 420 ● 5,380 of 5,561 👤 jcorbin@wunjo.org 🚩 1 Issue Reported

Instructions

Output

Past Solutions

Write a function which partitions a list of items based on a given predicate.

After the partition function is run, the list should be of the form [ F, F, F, T, T, T ] where the Fs (resp. Ts) are items for which the predicate function returned false (resp. true).

NOTE: the partitioning should be **stable**; in other words: the ordering of the Fs (resp. Ts) should be preserved relative to each other.

For convenience and utility, the partition function should return the boundary index. In other words: the index of the first T value in items.

For example:

```
var items = [1, 2, 3, 4, 5, 6];
function isEven(n) {return n % 2 == 0}
var i = partitionOn(isEven, items);
// items should now be [1, 3, 5, 2, 4, 6]
// i should now be 3
```

ALGORITHMS

FUNCTIONAL PROGRAMMING

DECLARATIVE PROGRAMMING

JavaScript

Node v8.1.3

VIM

EMACS

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Solution:

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```
1 // partition the items array so that all values for which pred returns true are
2 // at the end, returning the index of the first true value
3 * function partitionOn(pred, items) {
4   var f = items.filter( function(e)
5   { return !pred(e); } );
6   var t = items.filter(pred);
7   items.length = 0;
8   for(var i = 0; i < f.length; i++)
9   { items.push(f[i]); }
10  for(var i = 0; i < t.length; i++)
11  { items.push(t[i]); }
12  return f.length;
13 }
14 }
```

Sample Tests:

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?

```
1 * describe("Tests", () => {
2 *   it('test', () => {
3     var items = [1, 2, 3, 4, 5, 6];
4     function isEven(n) {return n % 2 == 0}
5     var i = partitionOn(isEven, items);
6     Test.assertEqual(1, 3, 'partitioned at 3' );
7     Test.assertSimilar( items.slice(0, i), [1, 3, 5] );
8     Test.assertSimilar( items.slice(i),   [2, 4, 6] );
9   });
10 });
```

⏮ SKIP

🔒 VIEW SOLUTIONS

💬 DISCUSS (36)

🔄 RESET

TEST

ATTEMPT

4k

Can you keep a secret?

☆ 50 ● 21 ↗ 86% of 370 ● 5,690 of 5,702 👤 nmoadev 🚩 2 Issues Reported

Instructions

Output

There's no such thing as private properties on a coffeescript object! But, maybe there are?

Implement a function `createSecretHolder(secret)` which accepts any value as secret and returns an object with **ONLY** two methods

- `getSecret()` which returns the secret
- `setSecret()` which sets the secret

```
obj = createSecretHolder(5)
obj.getSecret() # returns 5
obj.setSecret(2)
obj.getSecret() # returns 2
```

FUNDAMENTALS

CLOSURES

BASIC LANGUAGE FEATURES

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JavaScript

Node v8.1.3

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Solution:

⛶

```
1 * function createSecretHolder(secret) {
2   var _secret = secret;
3
4   return {
5     getSecret: function() {
6       return _secret;
7     },
8     setSecret: function(secret) {
9       _secret = secret;
10    }
11  }
12 }
13 }
```

🟢 Outstanding! You may take your time to refactor/comment your solution. Submit when ready.

×

Test Driven Development (TDD)

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?

```
1 // Since Node 10, we're using Mocha.
2 // You can use 'chai' for assertions.
3 const chai = require('chai');
4 const assert = chai.assert;
5 // Uncomment the following line to disable truncating failure messages for deep equals, do:
6 // chai.config.truncateThreshold = 0;
7 // Since Node 12, we no longer include assertions from our deprecated custom test framework by default
8 // Uncomment the following to use the old assertions:
9 // const Test = require("@codewars/test-compat");
10
```

⏮ SKIP

🔒 UNLOCK SOLUTIONS

💬 DISCUSS (9)

🔄 RESET

TEST

SUBMIT

2.3