MinHeap Class

4 min

Our MinHeap class will store two pieces of information:

- An

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[array](#)

 of elements within the heap.

- A count of the elements within the heap.

To make our lives easier, we'll always keep one element at the beginning of the array with the value null. By doing this, we can simplify our coding by always referencing our minimum element at

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[index](#)

 1 instead of 0 and our last element at index this.size instead of this.size - 1.

```
const minHeap = new MinHeap();
console.log(minHeap.heap);
// [ null ]
console.log(minHeap.size);
// 0
```

Instructions

1. Checkpoint 1 Passed

1.

Within **MinHeap.js**, define the MinHeap class constructor with no parameter.

Inside the constructor:

- define a heap property as an array containing null, and

- define a size property instantiated to 0.

2. Checkpoint 2 Passed

2.

In **script.js**, make an instance of MinHeap and assign it to the const variable minHeap.

3. Checkpoint 3 Passed

3.

In **script.js**, display the heap content of minHeap.

Hint

To display only the heap content of MinHeap, do the following:

console.log(minHeap.heap);

MinHeap.js

```
class MinHeap {
  constructor() {
    this.heap = [null];
    this.size = 0;
  }
}
module.exports = MinHeap;
```

script.js

```
const MinHeap = require('./MinHeap');

const minHeap = new MinHeap();

console.log(minHeap);
```