If 1 item takes 1 second to process, 100 items take 100 seconds to process

O(N)

Code Example

In this example,
findRandomNumberInArray(tinyArray) will
complete in no more than 10 iterations.

findRandomNumberInArray(largeArray) will
complete in no more than 100,000,000
iterations.

Remember that although a match is likely to
be found before the end of an array is
reached, Big O Notation is always written
assuming the *worst case scenario*.

```
1   // Creates this array: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
2   tinyArray = Array.from(Array(10).keys())
3   // Creates a very large array starting with: [0, 1, 2, 3 ...]
4   largeArray = Array.from(Array(100000000).keys())
5
6   findRandomNumberInArray(tinyArray)
7   findRandomNumberInArray(largeArray)
8
9   function findRandomNumberInArray(arr) {
10    randomNum = Math.floor(Math.random() * arr.length)
11    for (let i = 0; i < arr.length; i++) {
12      if (randomNum === arr[i]) return arr[i]
13    }
14  }
15
```