



Lesson 6

CodingBat and Arrays



What is an array?

- An array is a list of elements
- The declaration of an array looks like:

```
(type) [] (name) = new (type) [size];
```

```
Ex. int[] arr1 = new int[5];
```

0	1	2	3	4
---	---	---	---	---



How to use an Array

If you want to store a value in a position in an array, you can do it by writing:

```
int[] list = new int[5];
```

```
int number = 2;
```

```
list[0] = number;
```

```
list[1] = number + 1;
```



Length

To get the length of the array, use `.length`

```
int[] arr = new int[5];
```

```
System.out.println(arr.length) ;
```

To access the last element of the array, use `length-1`

```
arr[arr.length-1] = 4;
```



Try it Out!

Go to the online Java compiler and try out this challenge:

Make a String array named 'arr2', and make it 5 elements long.

Fill in each element with your name using a for loop!



Practice Problems

Go to www.codingbat.com and start to work on these problems in

Array 1

✓ firstLast6 H

✓ sameFirstLast H

✓ makePi

✓ commonEnd

✓ sum3

✓ rotateLeft3

Warmup 1 (Optional)

✓ mixStart H

✓ startOz H

✓ intMax H



Gimkit

Time for a Gimkit! Go to gimkit.com/play and join the game

Methods: gimkit.com/view/5f657ccac11d1200226928d2

Arrays: gimkit.com/view/5f583d86f017010022771026



Questions?

Contact us here:

Email:

codingpower101@gmail.com

Website: www.codingpower.org