Variable

7

Variable

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Array
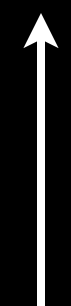
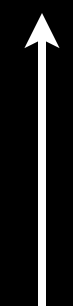| 4	8	15	16	23	42
0	1	2	3	4	5

Variable

```
var number = 7
```

Array

```
var numbers = [4, 8, 15, 16, 23, 42]
```

Creating an empty array.

Create an empty array of a certain type.

```
var numbers = [Int]()
```

This example makes an empty array of Ints.

An alternative syntax, provides the same result.

```
var numbers: [Int] = []
```

How many elements are in the array?

```
numbers.count
```

count is a read-only property that indicates how many elements are in the array.

```
var numbers = [4, 8, 15, 16, 23, 42]
print(numbers.count)
// 6 will be output to the console
```

```
numbers.isEmpty
```

isEmpty returns true when count == 0

Add an element

```
numbers.append(75)
```

append is used to add a new element to the end of the array.

In this example, numbers is an array of Int values. The example appends the Int value 75 to the end of the array.

subscript syntax

```
numbers[0]
```

Use an index value to access any element in the array. The first element is at index 0.

```
numbers[0] = 77
```

Use subscript syntax to change an existing value at a given index.
(This example sets the first element to the Int value 77.)

Insert an element

```
numbers.insert(86, at: 0)
```

Insert an item into the array at a specified index.

Remove an element

```
numbers.remove(at: 0)
```

Remove an item from the array at a specified index.

Iterating over an array

```
for value in numbers {
    print(value)
}
```

Iterate over the entire set of values in an array.