

**Goal:** Place Blu, Hopper, and the expert in order by height.

The `Array` [type](#) comes with a set of [methods](#) that let you add or remove items from your [array](#).

Array methods

`remove(at: Int)`. Removes an item at an [index](#).

`append(newElement: Element)`. Adds an item to the end of the array.

`insert(newElement: Element, at: Int)`. Inserts an item at a specific index.

Use [dot notation](#) to call a method on an array.

Example

```
var favoriteFoods = [🌮, 🍓, 🍣, 🔍, 🧀]
```

```
favoriteFoods.remove(at: 2)
```

Calling `remove(at: 2)` removes 🍣 from the array.

```
// [🌮, 🍓, 🔍, 🧀]
```

```
favoriteFoods.insert(🍷, at: 1)
```

Calling `insert(🍷, at: 1)` adds 🍷 at index 1.

```
// [🌮, 🍷, 🍓, 🔍, 🧀]
```

- 1 In the `characters` array below, remove the portal and gem.
  - 2 Insert an instance of type `Expert` so that the characters are arranged from *shortest* in the front (row 0) to *tallest* in the back.
- 

```
characters = [  
    Character(name: .blu),  
    Portal(color: 🟣),  
    Character(name: .hopper),  
    Gem()  
]
```

```
// Remove the portal.  
characters.remove(at: 1)  
// Remove the gem.  
characters.remove(at: 2)  
// Insert the expert.
```

```
characters.insert(Expert(), at: 1)
var rowPlacement = 0
for character in characters {
    world.place(character, at: Coordinate(column: 1, row:
        rowPlacement))
    rowPlacement += 1
}
```