

Dynamically Duplicate Input Elements



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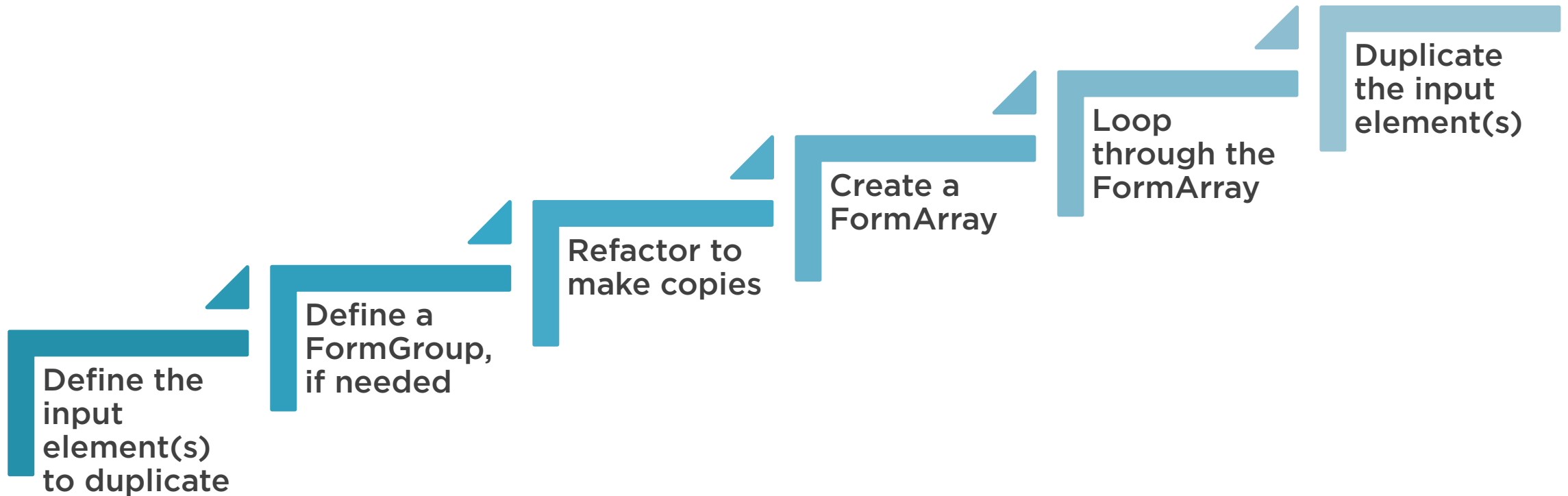
Module Overview

Steps

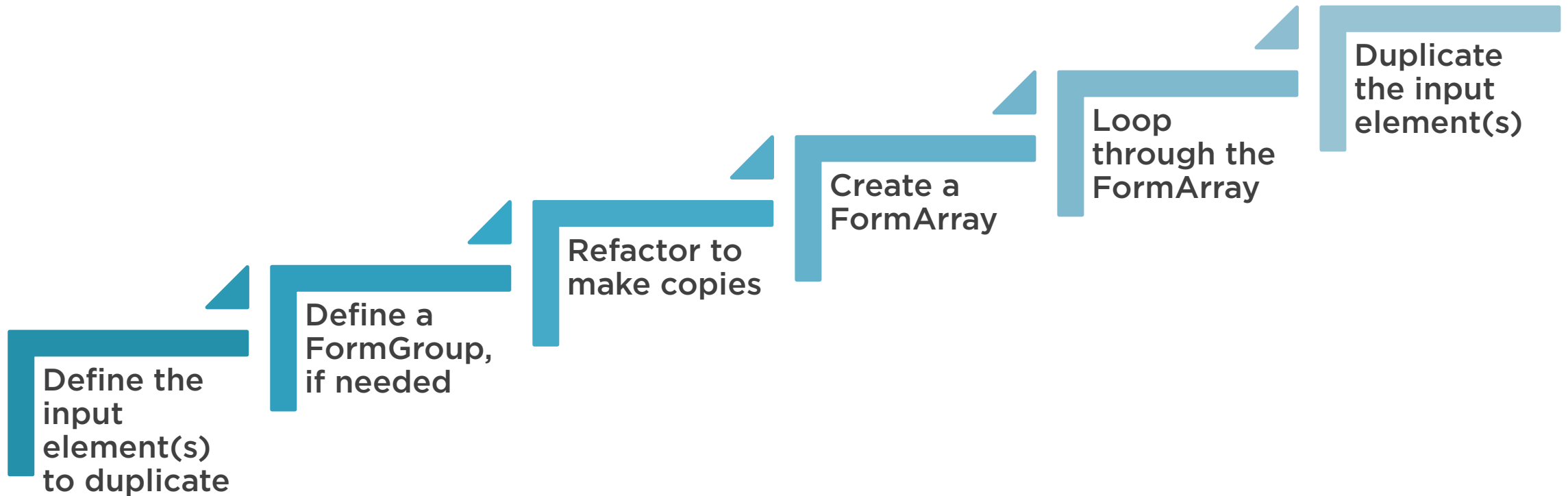
Perform Each Step

- FormArrays

Steps to Dynamically Duplicate Input Elements



Steps to Dynamically Duplicate Input Elements



Sign Up!

First Name

First Name (required)

Last Name

Last Name (required)

Email

Email (required)

☒ Send me your catalog

Address Type

☒ Home ☐ Work ☐ Other

Street Address 1

Street address

Street Address 2

Street address (second line)

City, State, Zip Code

City

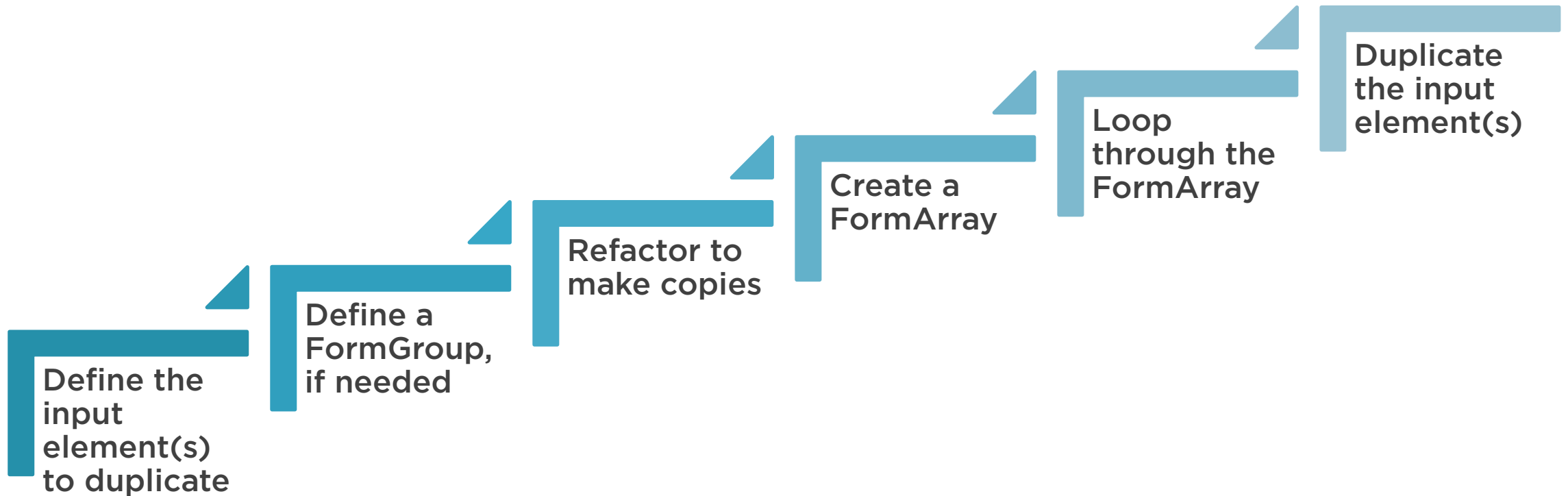
Select a State...

Zip Code

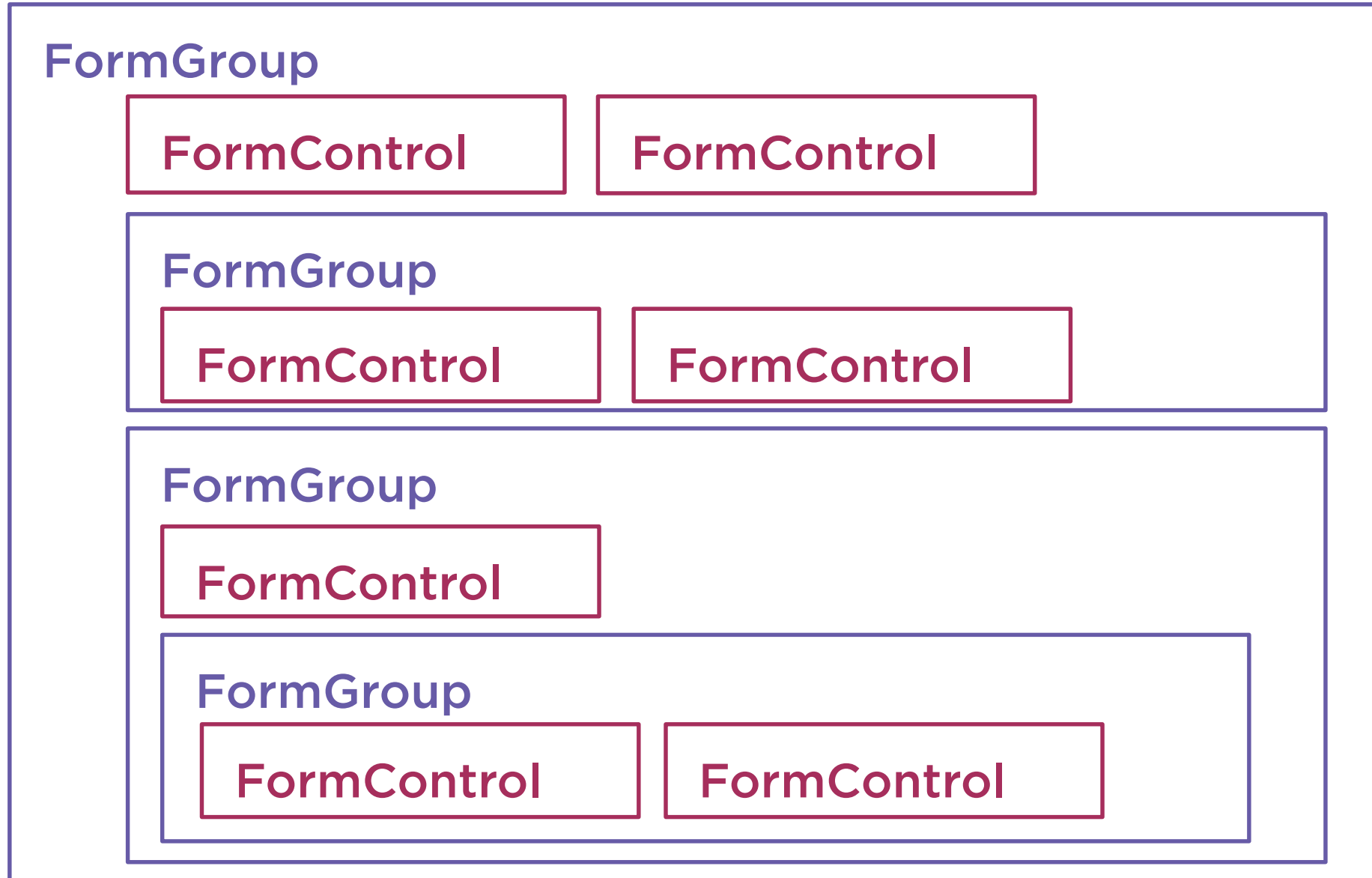
Save



Steps to Dynamically Duplicate Input Elements



FormGroup



Benefits of a FormGroup

Match the
value of the
form model to
the data model

Check
touched, dirty,
and valid state

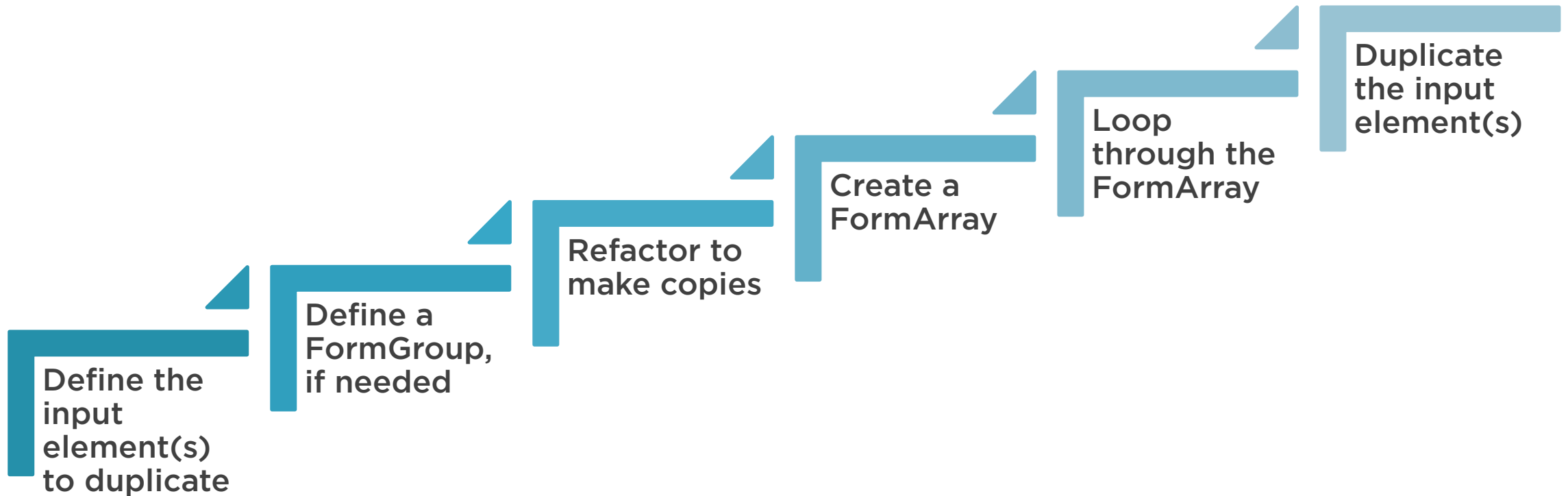
Watch for
changes and
react

Perform cross
field validation

Dynamically
duplicate the
group



Steps to Dynamically Duplicate Input Elements



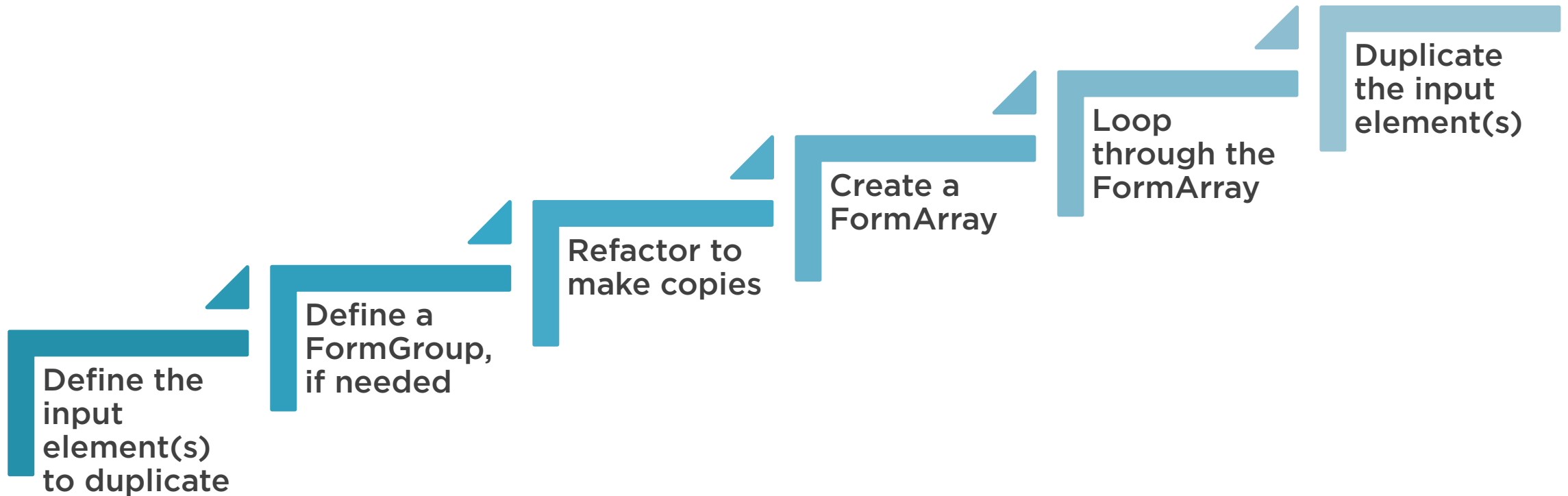
Creating a FormGroup in a Method

```
buildAddress(): FormGroup {  
    return this.fb.group({  
        addressType: 'home',  
        street1: '',  
        street2: '',  
        city: '',  
        state: '',  
        zip: ''  
    });  
}
```

```
this.customerForm = this.fb.group({  
    ...  
    addresses: this.buildAddress()  
});
```



Steps to Dynamically Duplicate Input Elements



FormArray

FormArray

FormControl

FormControl

FormGroup

FormControl

FormControl

FormGroup

FormControl

FormControl

FormControl

FormArray

FormGroup

FormControl

FormControl

FormGroup

FormControl

FormControl

FormGroup

FormControl

FormControl



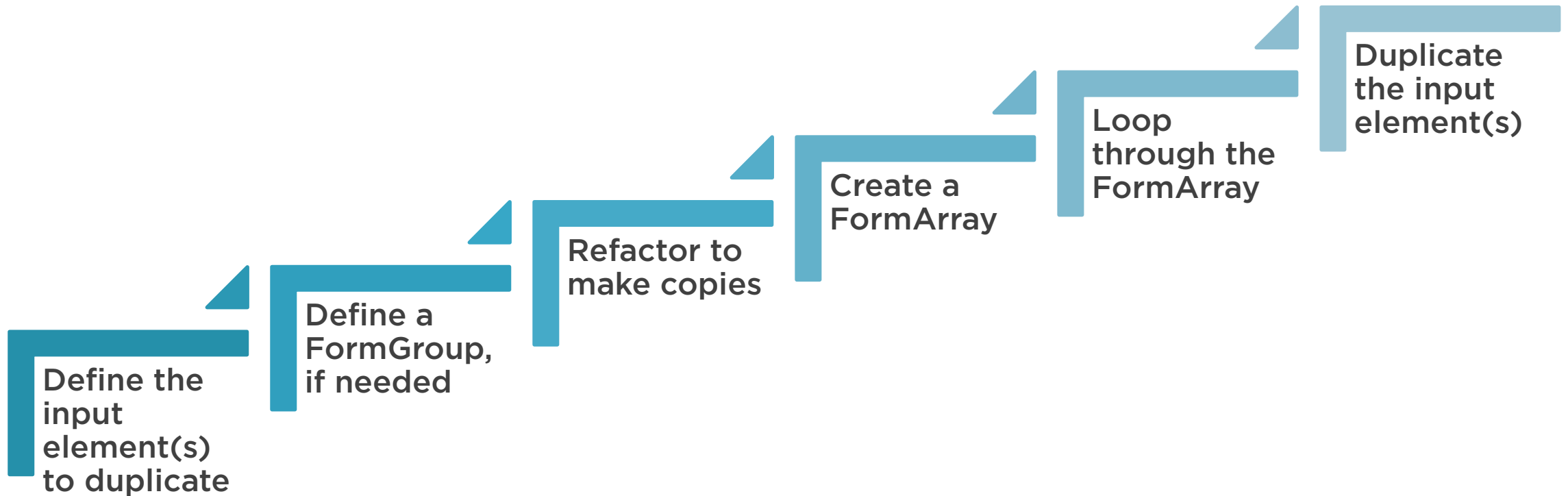
Creating a FormArray

```
this.myArray = new FormArray([...]);
```

```
this.myArray = this.fb.array([...]);
```



Steps to Dynamically Duplicate Input Elements

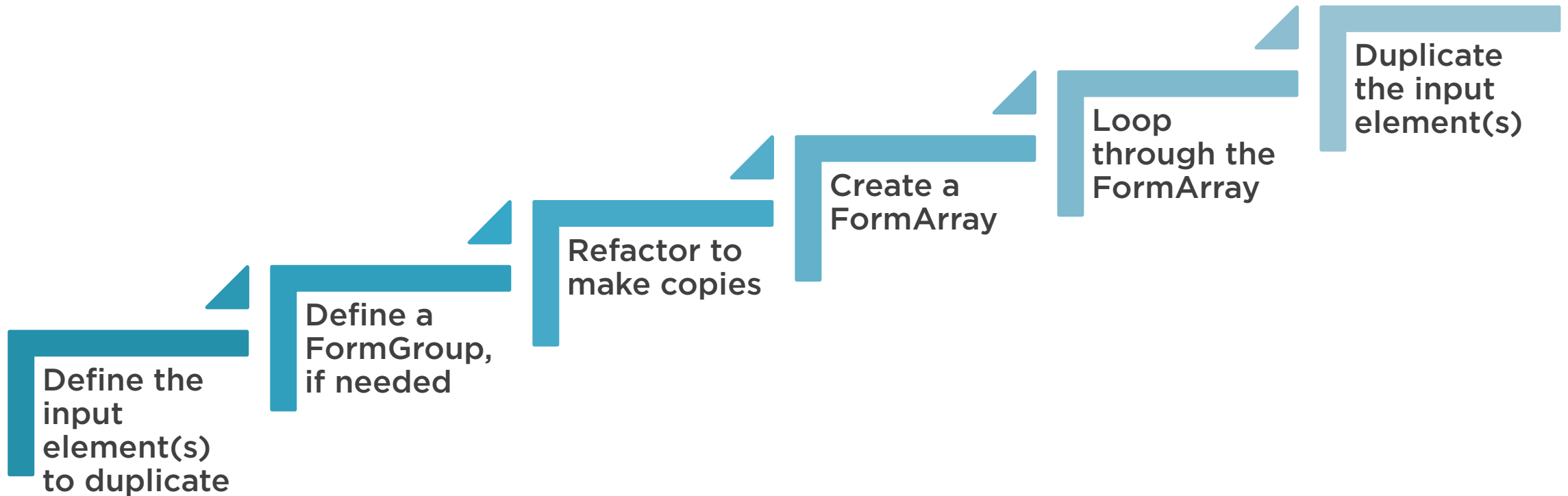


Looping Through a FormArray

```
<div formArrayName="addresses"  
  *ngFor="let address of addresses.controls; let i=index">  
  
  <div [formGroupName]="i">  
    ...  
  </div>  
  
</div>
```



Steps to Dynamically Duplicate Input Elements



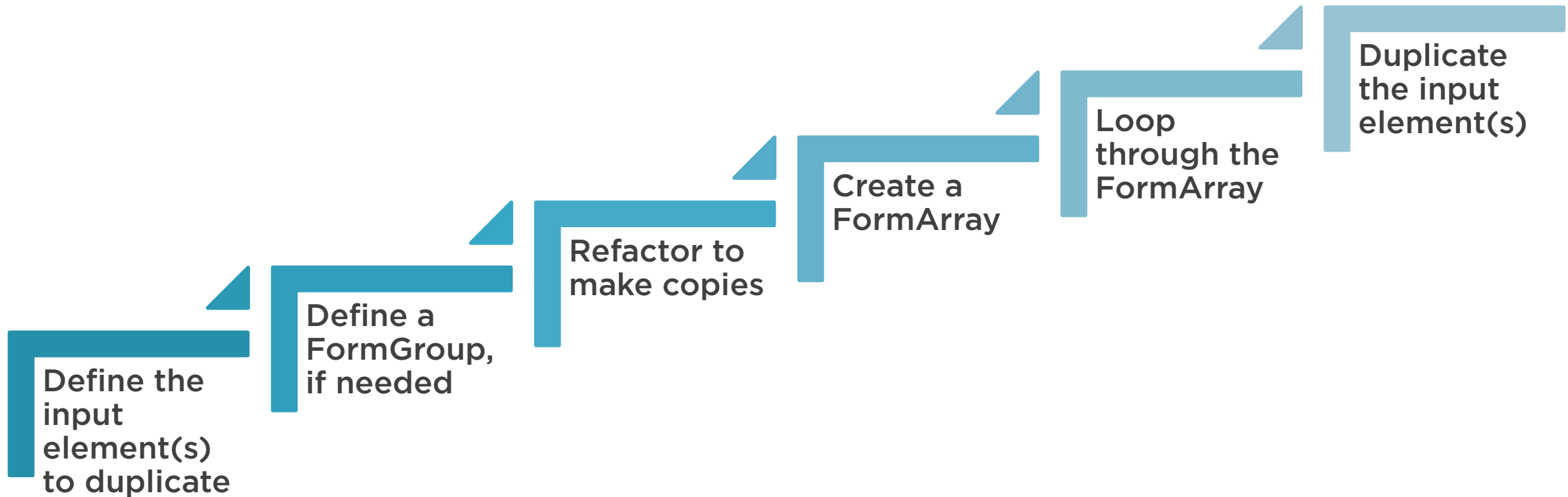
Duplicate the Input Elements

```
addAddress(): void {  
  this.addresses.push(this.buildAddress());  
}
```

```
<button class="btn btn-primary"  
        type="button"  
        (click)="addAddress()">  
  Add Another Address  
</button>
```



Checklist: Dynamically Duplicate Input Elements



Summary

Steps

Perform Each Step

- FormArrays