

## Swift forEach

In this tutorial, we will learn about Swift forEach with example programs.

Swift forEach is an instance method, meaning forEach method can be applied only on instances, like an array instance, set instance, dictionary instance, etc.

Swift forEach implements the given set of instructions on each element of the sequence like an array, set, dictionary, etc.

Following is a simple example to use forEach on an instance.

```
sequenceInstance.forEach { item_identifier in
```

```
sequenceInstance.forEach { item_identifier in
    // set of instructions
    // you can use "item_identifier" identifier to access this element
}
```

You can access this item in the loop with the `item_identifier` you provided after forEach keyword.

`in` after `item_identifier` is a keyword.

### Example 1: forEach with an Array

In this example, we take an array of numbers and use forEach to print each element.

forEach-array.swift

```
var odds:[Int] = [3, 9,
```

```
var odds:[Int] = [3, 9, 7, 5]

odds.forEach { odd in
    print(odd)
}
```

Output

```
3
9
```

3  
9  
7  
5

## Example 2: forEach with a Dictionary

In this example, we take a Dictionary and use forEach to print (key, value) pairs.

forEach-dictionary.swift

```
var myDictionary:  
[String:Int] = ["Mohan":75, "Raghu":82, "John":79]  
  
myDictionary.forEach{ item in  
    print(item)  
}
```

Output

```
(key: "Raghu", value:  
82)
```

```
(key: "Raghu", value: 82)  
(key: "Mohan", value: 75)  
(key: "John", value: 79)
```

## Example 3: forEach with a Set

In this example, we take a Set and use forEach to print the elements in it.

forEach-set.swift

```
var odds: Set = [3, 9,  
7, 5]
```

```
var odds: Set = [3, 9, 7, 5]  
  
odds.forEach{ odd in  
    print(odd)  
}
```

Output

5
7
5
7
3
9

## Conclusion

In this [Swift Tutorial](#), we have learned about forEach and how to use it with Arrays, Dictionaries, Sets, etc., with the help of Swift Example programs.

### Swift Tutorial

↳ [Swift Tutorial](#)

↳ [Swift Keywords](#)

↳ [Swift Comments](#)

↳ [Swift If](#)

↳ [Swift If-Else](#)

↳ [Swift For Loop](#)

↳ [Swift While Loop](#)

↳ [Swift forEach](#)

↳ [Swift Repeat While Loop](#)

↳ [Swift Break](#)

↳ [Swift Continue](#)

↳ [Swift Tuple](#)

↳ [Swift Enum](#)

↳ [Swift Structure](#)

### Strings

↳ [Swift - Substring](#)

↳ [Swift - Concatenate Strings](#)

### Arrays

↳ [Swift Array Initialization](#)

↳ [Swift Print Array](#)

↳ [Swift Integer Array](#)

↳ [Swift append Integer to Array](#)

↳ Swift append Integer to Array

↳ Swift String Array

↳ Swift append String to Array

↳ Swift Get Array Size - count

↳ Swift Remove an Element from Array

↳ Swift Append / Concatenate Arrays

↳ Swift Check if an Array is Empty

## Dictionaries

↳ Swift Dictionary

↳ Swift - Create Dictionary

↳ Swift - Create Dictionary using Arrays

↳ Swift - Iterate through Dictionary

↳ Swift - Get Dictionary Size

↳ Swift - Check if Dictionary is Empty

↳ Swift - Add or Append Element to Dictionary

↳ Swift - Get value using key in Dictionary

↳ Swift - Check if a key is present in Dictionary

↳ Swift - Merge Two Dictionaries

↳ Swift - Convert Dictionary into Arrays of Keys and Values

↳ Swift - Print all Keys in a Dictionary

## Sets

↳ Swift Print Set

↳ Swift Get Set Size

↳ Swift Insert Element to Set

↳ Swift Check if Element is present in Set

## File Operations

↳ Swift Read Text File

## Swift Errors [Solved]

↳ Swift error: return from initializer without initializing all stored properties

↳ Swift - struct error: missing argument labels in call