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JavaScript For In

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The For In Loop

The JavaScript `for in` statement loops through the properties of an Object:

Syntax

```
for (key in object) {  
  // code block to be executed  
}
```

Example

```
const person = {fname:"John", lname:"Doe", age:25};  
  
let text = "";  
for (let x in person) {  
  text += person[x];  
}
```

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Example Explained

- The **for in** loop iterates over a **person** object
- Each iteration returns a **key** (x)
- The key is used to access the **value** of the key
- The value of the key is **person[x]**

For In Over Arrays

The JavaScript `for in` statement can also loop over the properties of an Array:

Syntax

```
for (variable in array) {  
  code  
}
```

Example

```
const numbers = [45, 4, 9, 16, 25];  
  
let txt = "";  
for (let x in numbers) {  
  txt += numbers[x];  
}
```

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Do not use **for in** over an Array if the index **order** is important.

The index order is implementation-dependent, and array values may not be accessed in the order you expect.

It is better to use a **for** loop, a **for of** loop, or **Array.forEach()** when the order is important.

Array.forEach()

The `forEach()` method calls a function (a callback function) once for each array element.

Example

```
const numbers = [45, 4, 9, 16, 25];  
  
let txt = "";  
numbers.forEach(myFunction);  
  
function myFunction(value, index, array) {  
  txt += value;  
}
```

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Note that the function takes 3 arguments:

- The item value
- The item index
- The array itself

The example above uses only the value parameter. It can be rewritten to:


Example

```
const numbers = [45, 4, 9, 16, 25];  
  
let txt = "";  
numbers.forEach(myFunction);  
  
function myFunction(value) {  
  txt += value;  
}
```

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