

# Arrays

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## Declaration

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```
const arr = [1,2,3,4,5]  
values  
  
const arr = new Array(1,2,3,4,5)
```

## Methods

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### 1. Push() and Pop()

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[koue bhi value last se add hogi push() se or last se remove hogi pop()se]

```
let arr = [1,2,3,4,5]  
  
arr.push("gaurav") [ 1, 2, 3, 4, 5 , "gaurav" ]  
arr.pop() [ 1, 2, 3, 4, 5 ]  
  
console.log(arr)
```

### 2. unshift() and shift()

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[koue bhi value first se add hogi unshift() se or last se remove hogi shift()se]

```
let arr = [1,2,3,4,5]  
  
arr.unshift(6) [ 6, 1, 2, 3, 4, 5 ]  
  
arr.shift() [ 1, 2, 3, 4, 5 ]  
console.log(arr)
```

### 3. includes() and indexOf()

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includes()- its return true or false value arr ke andr ha ya nhi ha

indexOf() -value koun se index may ha ye show krta ha

```
let arr = [1,2,3,4,5]

console.log(arr.includes(6)) false
console.log(arr.includes(4)) true

console.log(arr.indexOf(5)) index value is 4
```

## 4. .join()

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join() convert array into string

```
let arr = [1,2,3,4,5]

let b= arr.join()

console.log(b)  "1,2,3,4,5"
```

## 5. slice() and splice()

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```
let arr = [1,2,3,4,5]

let b= arr.slice()
let c= arr.splice()

console.log(b)
```

## 6. concat()

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```
let arr1= [1,2,3,4,5]

let arr2= [6,7,8,9]

let b = arr1.concat(arr2)

console.log(b) [1, 2, 3, 4, 5, 6]
```

## 7. spread operator

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```
const numbers1 = [1, 2, 3];  
const numbers2 = [4, 5, 6];  
  
const combinedNumbers = [...numbers1, ...numbers2]; // [1, 2, 3, 4, 5, 6]
```

## 8. flat()

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```
let arr= [1,2,3,[23,6,7,[45,7,8,[2,3,5,7,[6,7,8,3]]]],4,5,6]  
  
let c= arr.flat(Infinity)  
  
console.log(c)  
[ 1, 2, 3, 23, 6, 7, 45, 7, 8, 2, 3, 5, 7, 6, 7, 8, 3, 4, 5, 6 ]
```

interview wise topic `Array.isArray()` / `Array.of()` / `Array.of()`

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## 9. `Array.isArray()`

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[for checking value jo arrhi ha vo array ha ya nhi ]

```
let a = 'gaurav'  
let c = Array.isArray(a)  
console.log(c) false
```

## 10. convert into Array "`Array.from(value)`"

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```
let a = 'gaurav'  
let c = Array.from(a)  
console.log(c)  
[ 'g', 'a', 'u', 'r', 'a', 'v' ]
```

## 11. `Array.of(value)`

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{different value ko add kr ke new array bnana}

```
let a = 'gaurav'  
let b = 'sondojha'  
let c = 'sheruy'  
  
console.log(Array.of(a,b,c))  
  
[ 'gaurav', 'sondojha', 'sheruy' ]
```