

Array Operations

Enter Array Size:

Enter element:

Add Element

Array size limit reached!

Enter element to be removed:

Submit

Remove elements by creating another array

Array elements: 1 2 5

Remove elements by splice

Array elements: 1 2 5

Enter element to be searched:

Linear Search

Found at index 0

Search element using find

Found at index 0

Delete array

Deletion m1

Array elements: undefined undefined undefined

Deletion m2

Array elements:

Array Operations

Enter Array Size:

Enter element:

Add Element

Enter element to be removed: Submit

Remove elements by creating another array

Remove elements by splice

Enter element to be searched: Submit

Linear Search

Remove elements by splice

Enter element to be searched: Submit

Linear Search

Search element using find

Delete array

Submit

Deletion m1

Deletion m2

HTML: -

<!--

Write a JavaScript program that will create an array and perform following operations

- To remove specific element from the array.
- Check if an array contains a specified value.
- To empty an array

-->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

<link rel="stylesheet" href="style_4.css">

<link rel="preconnect" href="https://fonts.googleapis.com">

<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>

<link href="https://fonts.googleapis.com/css2?family=Josefin+Sans:ital,wght@0,300;1,300&display=swap"

rel="stylesheet">

</head>

<body class="josefin-sans-body">

<h1>Array Operations</h1>

<div class="Size">

<label>Enter Array Size: </label>

<input type="text" id="size" class="ipcontainer" />

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</div>

<div class="operations">

<div class="box">

<label>Enter element: </label>

<input type="text" id="ele" class="ipcontainer" />

<button onclick="show()">Add Element</button>

<p id="result1"></p>

</div>

<div class="box">

<label>Enter element to be removed: </label>

<input type="text" id="ele1" class="ipcontainer" />

<button onclick="remove()">Submit</button>

<h3>Remove elements by creating another array</h3>

<p id="result2"></p>

<h3>Remove elements by splice</h3>

<p id="result3"></p>

</div>

<div class="box">

<label>Enter element to be searched: </label>

<input type="text" id="ele2" class="ipcontainer" />

<button onclick="search()">Submit</button>

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```
<br />
<h3>Linear Search</h3>
<p id="result4"></p>
<br />
<h3>Search element using find</h3>
<p id="result5"></p>
</div>

<div class="box">
  <h3>Delete array</h3>
  <button onclick="Delete()">Submit</button>
  <h3>Deletion m1</h3>
  <p id="result6"></p>
  <br />
  <h3>Deletion m2</h3>
  <p id="result7"></p>
  <br />
</div>
</div>
<script src="2_9_25.js"></script>
</body>

</html>
```

CSS: -

```
.josefin-sans-body {
  font-family: "Josefin Sans", sans-serif;
  font-optical-sizing: auto;
  font-weight: 300;
  font-style: normal;
}
```

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```
body{
    background-color: #EFEFEA;
}

input{
    background-color: aliceblue;
    border-radius: 5px;
    width: 100px;
    height: 20px;
    border-color: aliceblue;
}

label{
    font-weight: 700;
}

h1{
    text-align: center;
}

p{
    background-color: #EFEFEA;
    font-size: 20px;
    font-weight: 600;
}

.Size{
    text-align: center;
}
```

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```
.operations{  
    display: flex;  
    flex-direction: column;  
    align-items: center;  
}  
  
.box{  
    background-color: #273F4F;  
    color: #EFEDEA;  
    padding: 20px;  
    margin: 20px;  
    width: 400px;  
    max-height: 400px;  
    align-items: center;  
    justify-items: center;  
    border-radius: 10px;  
}  
  
button{  
    background-color: #FE7743;  
    color: #273F4F;  
    border-radius: 5px;  
    min-width: 60px;  
    border-color: #FE7743;  
    min-height: 30px;  
    align-self: center;  
    font-weight: 400;  
}
```

JS:-

/*

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Write a JavaScript program that will create an array and perform following operations

- To remove specific element from the array.
- Check if an array contains a specified value.
- To empty an array

*/

```
var arr = [];
```

```
function show(){
```

```
    var ele = document.getElementById('ele').value;
```

```
    let size = parseInt(document.getElementById('size').value);
```

```
    if(arr.length >= size){
```

```
        document.getElementById("result1").innerHTML = "Array size  
limit reached!";
```

```
        document.getElementById("result1").style.color = "#FE7743";
```

```
        return;
```

```
    }
```

```
    else{
```

```
        arr.push(ele);
```

```
        let text1 = "";
```

```
        for(var i = 0; i < arr.length; i++){
```

```
            text1 += arr[i] + " ";
```

```
        }
```

```
        document.getElementById("result1").innerHTML = text1;
```

```
        document.getElementById("result1").style.color = "#FE7743";
```

```
    }
```

```
}
```

```
function remove(){
```

```
    var ele = document.getElementById('ele1').value;
```

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```
var newarr = [];  
let text1 = "";  
for(var i = 0; i < arr.length; i++){  
    if(arr[i] == ele) continue;  
    else{  
        newarr.push(arr[i]);  
        text1 += arr[i] + " ";  
    }  
}  
document.getElementById("result2").innerHTML = "Array elements:"  
" + text1;  
document.getElementById("result2").style.color = "#FE7743";  
  
for(var i = 0; i < arr.length; i++){  
    if(arr[i] == ele) arr.splice(i,1);  
}  
  
let text2 = "";  
for(var i = 0; i < arr.length; i++){  
    text2 += arr[i] + " ";  
}  
  
document.getElementById("result3").innerHTML = "Array elements:"  
" + text2;  
document.getElementById("result3").style.color = "#FE7743";  
}  
  
function search(){  
    var ele = document.getElementById('ele2').value;  
    var flag = 0,idx = -1;  
    for(var i = 0; i < arr.length; i++){  
        if(arr[i] == ele){
```

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```
        flag = 1;
        idx = i;
        break;
    }
}
if(flag){
    document.getElementById("result4").innerHTML = "Found at index
" + idx;
    document.getElementById("result4").style.color = "#FE7743";
}
else{
    document.getElementById("result4").innerHTML = "Element not
found";
    document.getElementById("result4").style.color = "#FE7743";
}

idx = arr.indexOf(ele);
if(idx == -1){
    document.getElementById("result5").innerHTML = "Element not
found";
    document.getElementById("result5").style.color = "#FE7743";
}
else{
    document.getElementById("result5").innerHTML = "Found at index
" + idx;
    document.getElementById("result5").style.color = "#FE7743";
}
}

function Delete(){
    let text1 = "";
    for(var i = arr.length-1; i >= 0; i--){
```

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```
        arr.pop();

        text1 += arr[i] + " ";

    }

    document.getElementById("result6").innerHTML = "Array elements: "
+ text1;

    document.getElementById("result6").style.color = "#FE7743";


    let text2 = "";
    arr.splice(0,arr.length);
    for(var i = 0; i < arr.length; i++){
        text2 += arr[i] + " ";
    }

    document.getElementById("result7").innerHTML = "Array elements: "
+ text2;

    document.getElementById("result7").style.color = "#FE7743";
}
```