

# JS-2

## Array Methods

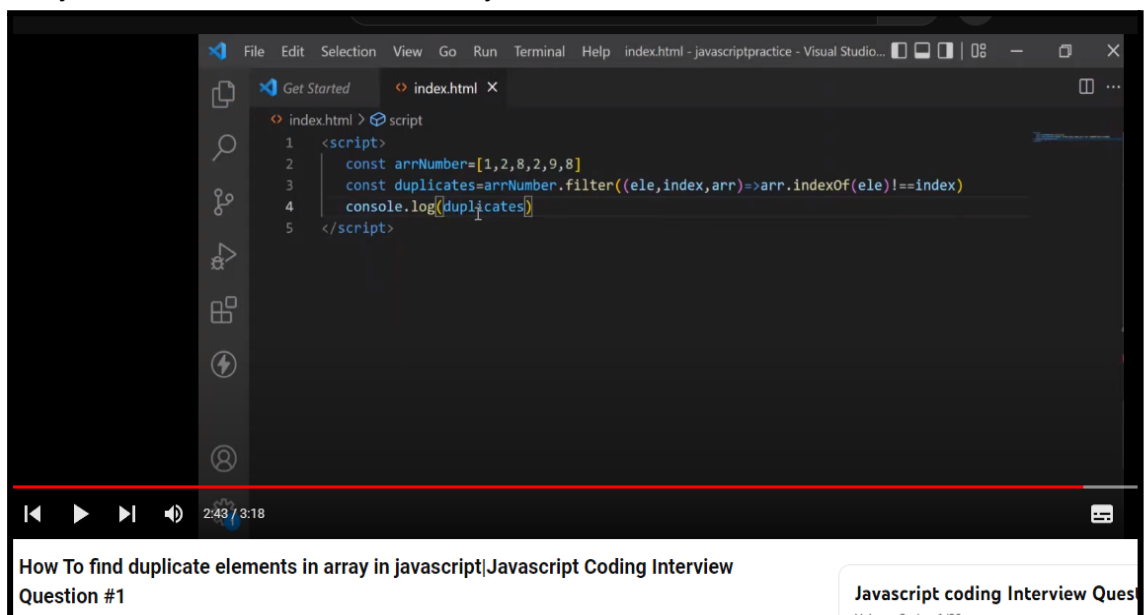
### Map

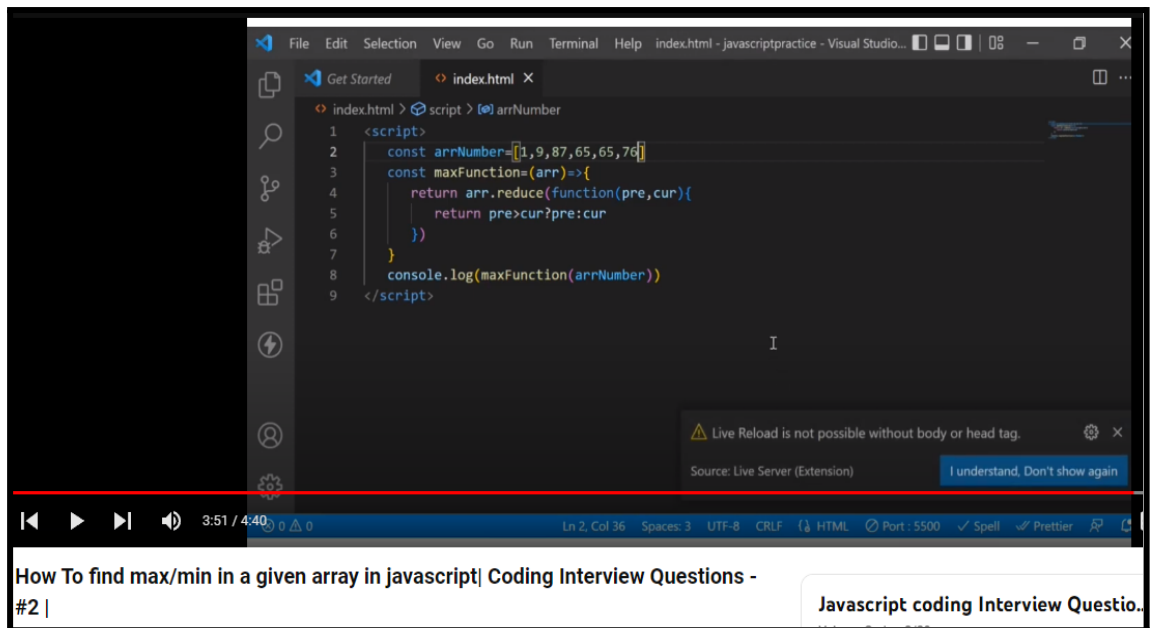
### Filter

### Reduce

### Promises

- What is an array ? Give a brief overview ?  
→ <https://javascript.info/array-methods>
- Array methods which has been mostly asked in the interview





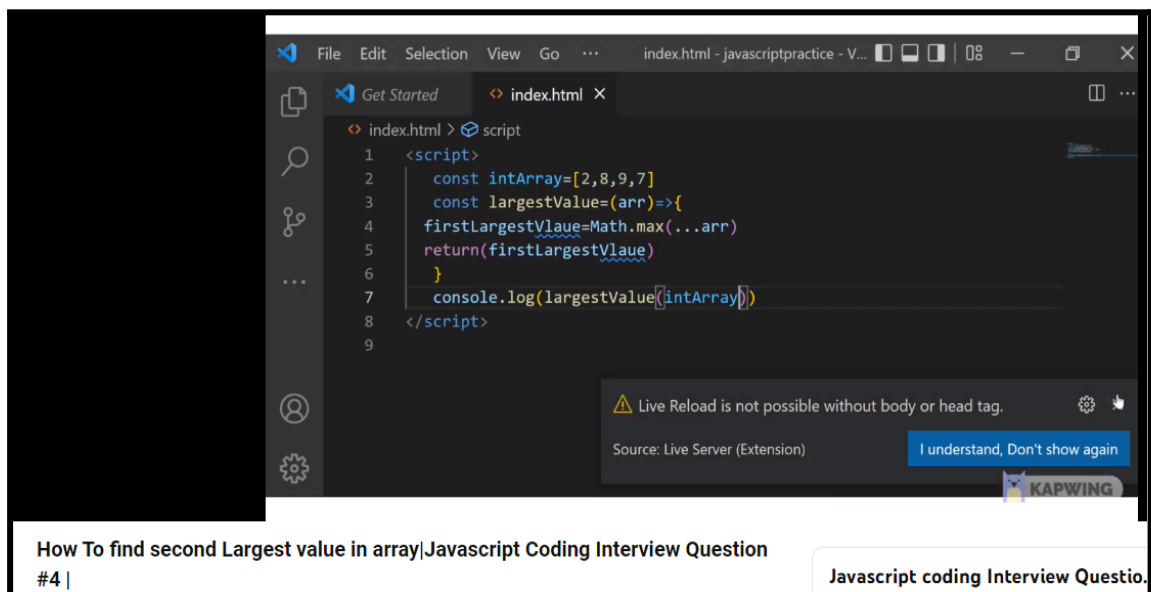
The screenshot shows a video player interface. The main content is a VS Code editor window titled 'index.html - javascriptpractice - Visual Studio...'. The editor displays the following JavaScript code:

```
1 <script>
2   const arrNumber=[1,9,87,65,65,76]
3   const maxFunction=(arr)=>{
4     return arr.reduce(function(pre,cur){
5       return pre>cur?pre:cur
6     })
7   }
8   console.log(maxFunction(arrNumber))
9 </script>
```

Below the code editor, a status bar shows 'Ln 2, Col 36', 'Spaces: 3', 'UTF-8', 'CRLF', and other settings. A notification at the bottom right states: 'Live Reload is not possible without body or head tag. Source: Live Server (Extension)'. A video player control bar at the bottom indicates the video is at 3:51 / 4:40.

How To find max/min in a given array in javascript| Coding Interview Questions - #2 |

Javascript coding Interview Questio..



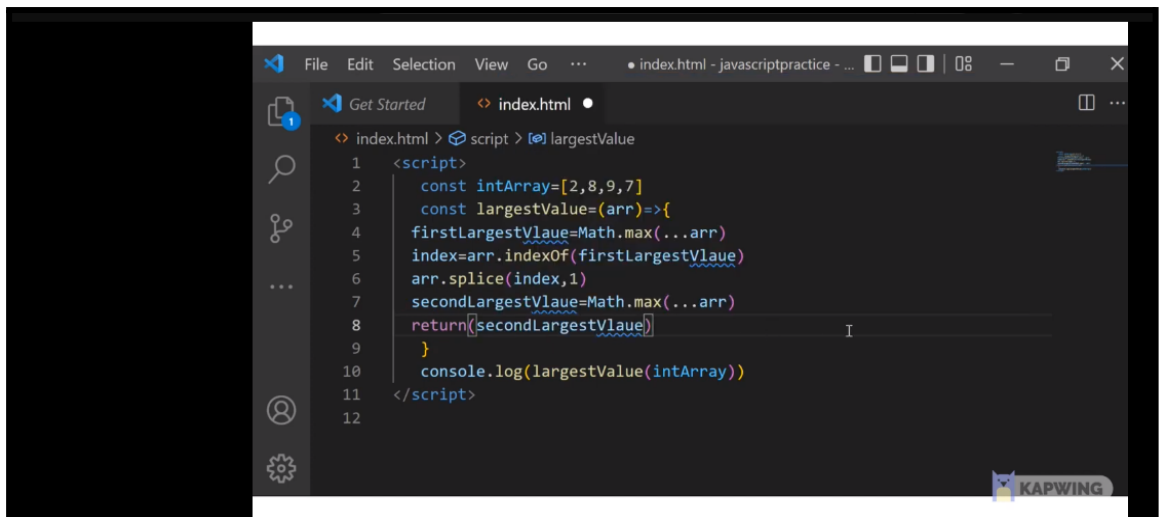
The screenshot shows a video player interface. The main content is a VS Code editor window titled 'index.html - javascriptpractice - V...'. The editor displays the following JavaScript code:

```
1 <script>
2   const intArray=[2,8,9,7]
3   const largestValue=(arr)=>{
4     firstLargestVlaue=Math.max(...arr)
5     return(firstLargestVlaue)
6   }
7   console.log(largestValue(intArray))
8 </script>
9
```

Below the code editor, a status bar shows 'Ln 2, Col 36', 'Spaces: 3', 'UTF-8', 'CRLF', and other settings. A notification at the bottom right states: 'Live Reload is not possible without body or head tag. Source: Live Server (Extension)'. A video player control bar at the bottom indicates the video is at 3:51 / 4:40.

How To find second Largest value in array|Javascript Coding Interview Question #4 |

Javascript coding Interview Questio..



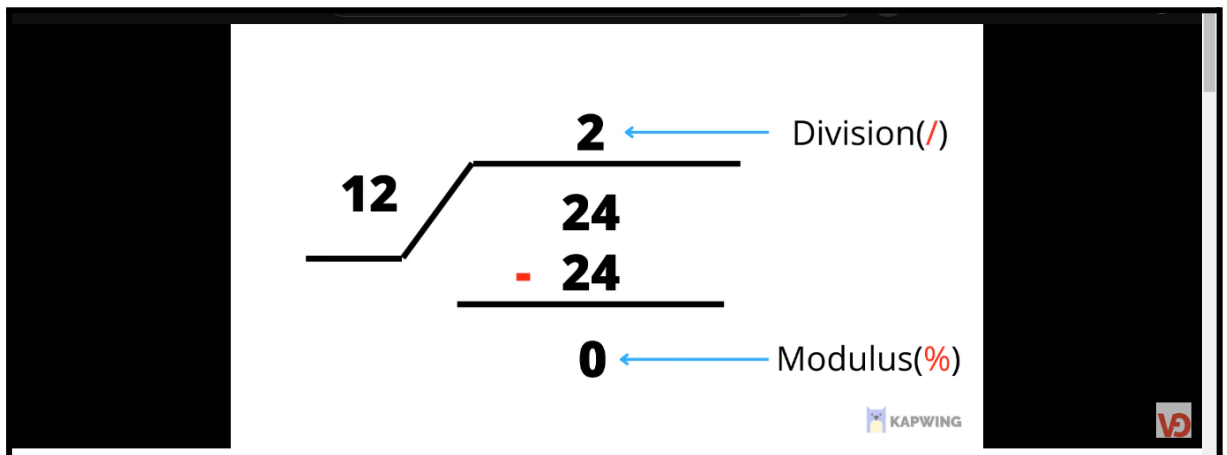
The screenshot shows a Visual Studio Code editor with a file named `index.html`. The code is as follows:

```

1 <script>
2   const intArray=[2,8,9,7]
3   const largestValue=(arr)=>{
4     firstLargestVlaue=Math.max(...arr)
5     index=arr.indexOf(firstLargestVlaue)
6     arr.splice(index,1)
7     secondLargestVlaue=Math.max(...arr)
8     return(secondLargestVlaue)
9   }
10  console.log(largestValue(intArray))
11 </script>
12

```

Below the code editor, the text reads: "How To find second Largest value in array|Javascript Coding Interview Question #4 |".



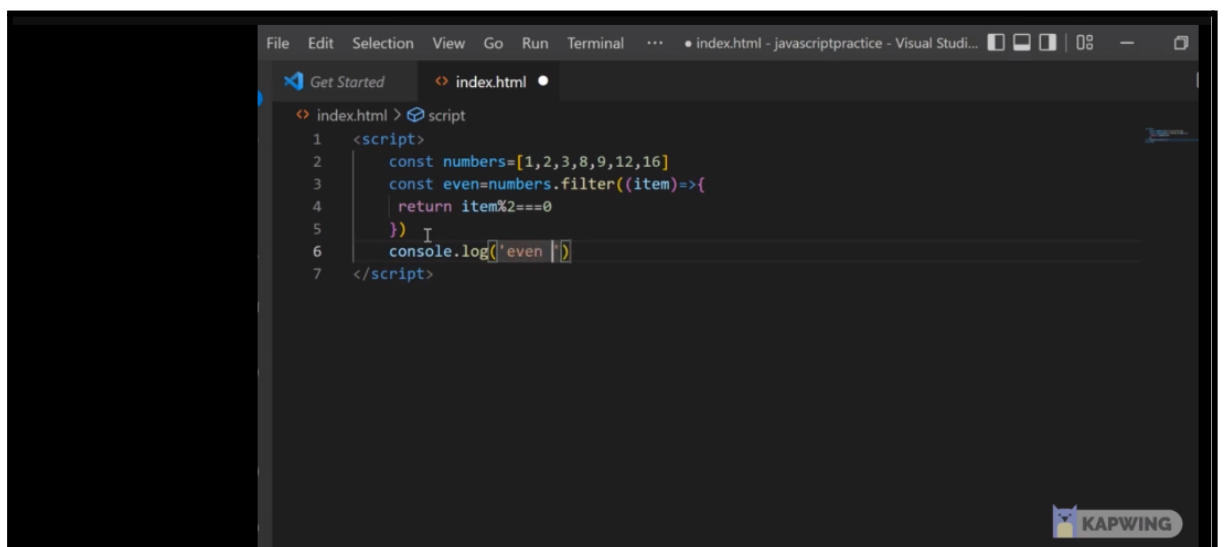
The diagram shows a handwritten-style calculation:

$$\begin{array}{r}
 12 \quad \swarrow \\
 \hline
 24 \\
 - 24 \\
 \hline
 0
 \end{array}$$

Annotations include:

- A blue arrow pointing to the `2` above the division line, labeled "Division(/)".
- A blue arrow pointing to the `0` below the subtraction line, labeled "Modulus(%)".

Below the diagram, the text reads: "how to find even or odd numbers in array in javascript| Coding Interview Questions #7".



The screenshot shows a Visual Studio Code editor with a file named `index.html`. The code is as follows:

```

1 <script>
2   const numbers=[1,2,3,8,9,12,16]
3   const even=numbers.filter((item)=>{
4     return item%2===0
5   })
6   console.log('even |')
7 </script>

```

Below the code editor, the text reads: "how to find even or odd numbers in array in javascript| Coding Interview Questions #7".

```
File Edit Selection View Go Run Terminal ... • index.html - javascriptpractice - Visual Studi...
index.html > script
1 <script>
2   const numbers=[1,2,3,8,9,12,16]
3   const even=numbers.filter((item)=>{
4     return item%2===0
5   })
6   const odd=numbers.filter((item)=>{
7     return item%2!==0
8   })
9   console.log('even numbers',even)
10  console.log('odd numbers',odd)
11 </script>
```

Watermark: VETERN CODE, KAPWING

how to find even or odd numbers in array in javascript| Coding Interview Questions #7

Javascript coding Interview Questio...

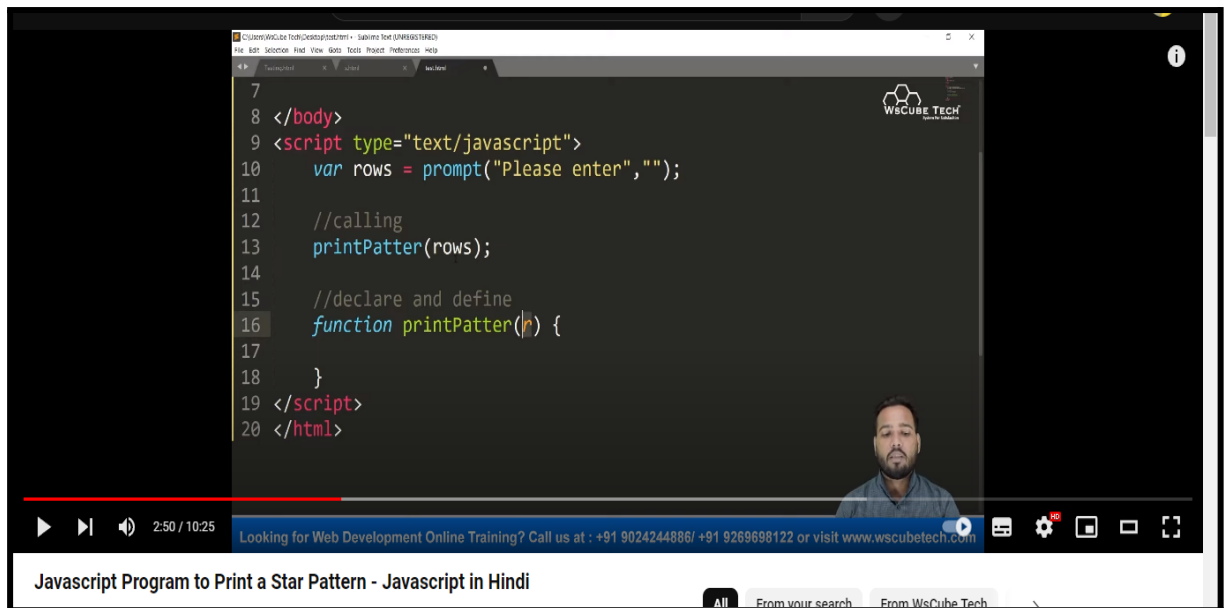
```
File Edit Selection View Go Run Terminal ... • index.html - javascriptpractice - Visual Studi...
index.html > script
1 <script>
2   const arrNum=[1,9,6,4]
3   const sumOfNumbers=(arr)=>{
4     return arr.reduce((pre,cur)=>{
5       return pre+cur
6     })
7   }
8   I
9 </script>
```

Dropdown menu options: length, let, localStorage, location, locationbar, log, Location, Lock, LockManager, useLayoutEffectSnippet, useLayoutEffect

Watermark: KAPWING

How to find the sum of all elements in array in Javascript|Coding Interview Question #8 |

Javascript coding Interview Questio.



- What is Map, Filter, Reduce in JS ?
  - <https://www.freecodecamp.org/news/javascript-map-reduce-and-filter-explained-with-examples/>
  - Everything accepts a callback function and 3 parameters which are (element, index, array)
- What is a Callback Function and Callback Hell ?
  - Kaafi saare callbacks ek sath define kar dena and code ko bina faltu lengthy bana dena
  - <https://www.scaler.com/topics/callback-hell-in-javascript/>
  - Isse bachne ke liye we are using promises.
  - <https://www.geeksforgeeks.org/what-to-understand-callback-and-callback-hell-in-javascript/>
- What are Promises ? Explain with async-await, try-catch and three states of them ?
  - <https://www.simplilearn.com/tutorials/javascript-tutorial/javascript-promise>
- Why are we using promises over a callback function ?
  - <https://betterprogramming.pub/callbacks-vs-promises-in-javascript-1f074e93a3b5>