



## 5 Array-based DSA questions

Q-1: Find the Maximum Element in an Array

Q-2: Reverse an Array

Q-3: Search an Element (Linear Search)

Q-4: Find Sum of All Elements

Q-5: Find a Pair with Given Sum (Two Pointers)



**Satendra Rajput**  
@satendracoder

<https://satendracoder.com/>



## Q-1: Find the Maximum Element in an Array

? Problem

```
let arr = [10, 25, 5, 40, 15];
```

```
let max = arr[0];
```

```
for (let i = 1; i < arr.length; i++) {  
    if (arr[i] > max) {  
        max = arr[i];  
    }  
}
```

```
console.log(max);
```

Output - > 40



Satendra Rajput  
@satendracoder

<https://satendracoder.com/>



## Q-2: Reverse an Array

? Problem

```
let arr = [1, 2, 3, 4, 5]
let start = 0;
let end = arr.length - 1;

while (start < end) {
    let temp = arr[start];
    arr[start] = arr[end];
    arr[end] = temp;

    start++;
    end--;
}

console.log(arr);
```

**Output**

[5, 4, 3, 2, 1]



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@satendracoder

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## Q-3: Search an Element (Linear Search)

? Problem

```
let arr = [5, 10, 15, 20]  
let target = 15
```

```
let found = false;
```

```
for (let i = 0; i < arr.length; i++) {  
    if (arr[i] === target) {  
        found = true;  
        break;  
    }  
}  
console.log(found);
```

**Output** > true



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## Q-4: Find Sum of All Elements

? Problem

```
let arr = [2, 4, 6, 8]
```

```
let sum = 0;
```

```
for (let i = 0; i < arr.length; i++) {  
    sum += arr[i];  
}
```

```
console.log(sum);
```

**Output > 20**



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## Q-5: Find a Pair with Given Sum (Two Pointers)

```
let arr = [1, 2, 3, 4, 5, 7]  
let target = 9  
let right = arr.length - 1;
```

? Problem

```
let left = 0;  
let result = false;
```

```
while (left < right) {  
    let currentSum = arr[left] + arr[right];  
  
    if (currentSum === target) {  
        result = true;  
        break;  
    } else if (currentSum < target) {  
        left++;  
    } else {  
        right--;  
    }  
}  
  
console.log(result);
```

**Output** > true



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@satendracoder

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I hope you find this post helpful.

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