Remove duplicates solution

remove duplicates from array solution

Here are **multiple simple and most-used solutions** to remove duplicates from an array in JavaScript — all explained in a **beginner-friendly way**.

✅ 1. Using `Set` (Easiest & Most Common)

Code

```js
const arr = [1, 2, 2, 3, 4, 4, 5];
const unique = [...new Set(arr)];
console.log(unique);
```

Output

```csharp
[1, 2, 3, 4, 5]
```

Why it works?

- `Set` automatically removes duplicate values.
- `...` spreads set values back into an array.

✅ 2. Using `filter() + indexOf()`

Code

```js
const arr = [1, 2, 2, 3, 4, 4, 5];
const unique = arr.filter((item, index) => arr.indexOf(item) === index);
console.log(unique);
```

Output

```csharp
[1, 2, 3, 4, 5]
```

Explanation

- `indexOf(item)` gives the **first position** where the value appears.
- `filter` keeps only the item whose current index is the **first** index.

✅ 3. Using `reduce()`

Code

```js
const arr = [1, 2, 2, 3, 4, 4, 5];

const unique = arr.reduce((acc, item) => {
  if (!acc.includes(item)) {
    acc.push(item);
  }
  return acc;
}, []);

console.log(unique);
```

✅ 4. Using a simple loop (for beginners)

Code

```js
const arr = [1, 2, 2, 3, 4, 4, 5];

const unique = [];
for (let i = 0; i < arr.length; i++) {
  if (!unique.includes(arr[i])) {
    unique.push(arr[i]);
  }
}

console.log(unique);
```

⭐ Best Method?

Method	Best For
Set	Simple, fast, modern JavaScript
filter + indexOf	Interview questions
reduce	Functional programming questions
for loop	Understanding fundamentals

If you want, I can also give you:

✔️ 10 interview questions on removing duplicates

✔️ Solutions with step-by-step explanation

✔️ Hard-level variations (like removing duplicates from array of objects)