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  Spread Operator => ...Iterable

  "Allow Iterable To expand in place"

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// spread With String => Expand String

console.log("osama");

console.log(..."osama"); // o s a m a

console.log({ ..."osama" }); // turns it to a string {0: 'o', 1: 's', 2: 'a', 3: 'm', 4: 'a'}

// concatenate Arrays

let myArray1 = [1, 2, 3];

let myArray2 = [4, 5, 6];

let allArrays = [...myArray1, ...myArray2]; // [1, 2, 3, 4, 5, 6]

console.log(allArrays);

// copy Array

let copiedArray = [...myArray1];

console.log(copiedArray);

// Push INside Array

let allFriends = ["Osama", "Ahmad", "Sayed"];

let thisYearFriends = ["sameh", "Mahmoud"];

allFriends.push("sameh", "Mahmoud");

console.log(allFriends);

// Use With Math Object

let myNums = [10, 20, -100, 100, 1000, 500];

console.log(Math.max(...myNums)); // max tells u whats the higher number in the numbers when u place myNum with no dots (...) it will give u a NaN (not a number) but when u add them it will extract them and place the numbers down so the highest number/value will be 1000

// Spread With Objects => Merge Objects

let objOne = {

  a: 1,

  b: 2,

};

let objTwo = {

  c: 3,

  d: 4,

};

console.log({ ...objOne, ...objTwo, e: 5}); // {a: 1, b: 2, c: 3, d: 4, e: 5}