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How to move specified number of elements to the end of an array in JavaScript ?

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The purpose of this article is to move some specified elements to the end of an array using [JavaScript](#).

Given an array of length say N, move some specified amount of elements say X to the end of the given array.

Input:

```
arr = [1, 2, 3, 4, 5]
X = 2
```

Output: The following array should be the output as the first two numbers are moved to the end of the array.

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

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- Then extract the last (N-X) elements from the array into a new array *arr2*.
- Then concatenate *arr1* after *arr2* to get the resulting array.

JavaScript code:

Javascript

```javascript
function moveElementsToEndOfArray(arr, x) {

    // arr is the input array
    // x is the no. of elements that
    // needs to be moved to end of
    // the array

    let n = arr.length;

    // if x is greater than length
    // of the array
    x = x % n;

    let first_x_elements = arr.slice(0, x);

    let remaining_elements = arr.slice(x, n);

    // Destructuring to create the desired array
    arr = [...remaining_elements, ...first_x_elements];
```

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Output:

```
[ 6, 1, 2, 3, 4, 5 ]
```

Approach 2:

- Run a *for* loop from index i = 0 till X-1
- In each iteration take the element at current index and append it at the end of the array.
- After the iteration is complete, use the JavaScript *splice()* method to remove first X elements from the array to get the resultant array.

JavaScript code:

Javascript

```javascript
function moveElementsToEndOfArray(arr, x) {

    // Array is [1, 2, 3, 4, 5] and x = 2
    // final output would be [3, 4, 5, 1, 2]
    x = x % (arr.length);

    for (let i = 0; i < x; i++) {
```

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```
        // Splice method will remove first
        // x = 2 elements from the array
        // so array will be [3, 4, 5, 1, 2]

        console.log(arr);
}

let arr = [1, 2, 3, 4, 5];
let k = 2;
moveElementsToEndOfArray(arr, k);
```

Output:

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

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