

# 2635. Apply Transform Over Each Element in Array

## Description

Given an integer array `arr` and a mapping function `fn`, return a new array with a transformation applied to each element.

The returned array should be created such that `returnedArray[i] = fn(arr[i], i)`.

Please solve it without the built-in `Array.map` method.

### Example 1:

**Input:** `arr = [1,2,3]`, `fn = function plusone(n) { return n + 1; }`

**Output:** `[2,3,4]`

**Explanation:**

```
const newArray = map(arr, plusone); // [2,3,4]
```

The function increases each value in the array by one.

### Example 2:

**Input:** `arr = [1,2,3]`, `fn = function plusI(n, i) { return n + i; }`

**Output:** `[1,3,5]`

**Explanation:** The function increases each value by the index it resides in.

### Example 3:

**Input:** `arr = [10,20,30]`, `fn = function constant() { return 42; }`

**Output:** `[42,42,42]`

**Explanation:** The function always returns 42.

### Constraints:

- `0 <= arr.length <= 1000`
- `-109 <= arr[i] <= 109`
- `fn` returns a number

