

2724. Sort By

Description

Given an array `arr` and a function `fn`, return a sorted array `sortedArr`. You can assume `fn` only returns numbers and those numbers determine the sort order of `sortedArr`. `sortedArray` must be sorted in **ascending order** by `fn` output.

You may assume that `fn` will never duplicate numbers for a given array.

Example 1:

Input: `arr = [5, 4, 1, 2, 3], fn = (x) => x`

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

Explanation: `fn` simply returns the number passed to it so the array is sorted in ascending order.

Example 2:

Input: `arr = [{"x": 1}, {"x": 0}, {"x": -1}], fn = (d) => d.x`

Output: `[{"x": -1}, {"x": 0}, {"x": 1}]`

Explanation: `fn` returns the value for the "x" key. So the array is sorted based on that value.

Example 3:

Input: `arr = [[3, 4], [5, 2], [10, 1]], fn = (x) => x[1]`

Output: `[[10, 1], [5, 2], [3, 4]]`

Explanation: `arr` is sorted in ascending order by number at `index=1`.

Constraints:

- `arr` is a valid JSON array
- `fn` is a function that returns a number
- `1 <= arr.length <= 5 * 105`

