

2722. Join Two Arrays by ID

Description

Given two arrays `arr1` and `arr2`, return a new array `joinedArray`. All the objects in each of the two inputs arrays will contain an `id` field that has an integer value. `joinedArray` is an array formed by merging `arr1` and `arr2` based on their `id` key. The length of `joinedArray` should be the length of unique values of `id`. The returned array should be sorted in **ascending** order based on the `id` key.

If a given `id` exists in one array but not the other, the single object with that `id` should be included in the result array without modification.

If two objects share an `id`, their properties should be merged into a single object:

- If a key only exists in one object, that single key-value pair should be included in the object.
- If a key is included in both objects, the value in the object from `arr2` should override the value from `arr1`.

Example 1:

```
Input:
arr1 = [
  {"id": 1, "x": 1},
  {"id": 2, "x": 9}
],
arr2 = [
  {"id": 3, "x": 5}
]
Output:
[
  {"id": 1, "x": 1},
  {"id": 2, "x": 9},
  {"id": 3, "x": 5}
]
Explanation: There are no duplicate ids so arr1 is simply concatenated with arr2.
```

Example 2:

```
Input:
arr1 = [
  {"id": 1, "x": 2, "y": 3},
  {"id": 2, "x": 3, "y": 6}
],
arr2 = [
  {"id": 2, "x": 10, "y": 20},
  {"id": 3, "x": 0, "y": 0}
]
Output:
[
  {"id": 1, "x": 2, "y": 3},
  {"id": 2, "x": 10, "y": 20},
  {"id": 3, "x": 0, "y": 0}
]
Explanation: The two objects with id=1 and id=3 are included in the result array without modification. The two objects with id=2 are merged together. The keys from arr2 override the values in arr1.
```

Example 3:

```
Input:
arr1 = [
  {"id": 1, "b": {"b": 94}, "v": [4, 3], "y": 48}
]
arr2 = [
  {"id": 1, "b": {"c": 84}, "v": [1, 3]}
]
Output: [
  {"id": 1, "b": {"c": 84}, "v": [1, 3], "y": 48}
]
Explanation: The two objects with id=1 are merged together. For the keys "b" and "v" the values from arr2 are used. Since the key "y" only exists in arr1, that value is taken form arr1.
```

Constraints:

- `arr1` and `arr2` are valid JSON arrays
- Each object in `arr1` and `arr2` has a unique integer `id` key
- `2 <= JSON.stringify(arr1).length <= 106`
- `2 <= JSON.stringify(arr2).length <= 106`

