

Problem 1389: Create Target Array in the Given Order

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 86.37%

Paid Only: No

Tags: Array, Simulation

Problem Description

Given two arrays of integers `nums`` and `index``. Your task is to create `_target_`` array under the following rules:

* Initially `_target_`` array is empty. * From left to right read `nums[i]` and `index[i]`, insert at index `index[i]` the value `nums[i]` in `_target_`` array. * Repeat the previous step until there are no elements to read in `nums`` and `index``.

Return the `_target_`` array.

It is guaranteed that the insertion operations will be valid.

Example 1:

Input: `nums = [0,1,2,3,4], index = [0,1,2,2,1]` **Output:** `[0,4,1,3,2]` **Explanation:** `nums`
`index target`
0 0 [0] 1 1 [0,1] 2 2 [0,1,2] 3 2 [0,1,3,2] 4 1 [0,4,1,3,2]

Example 2:

Input: `nums = [1,2,3,4,0], index = [0,1,2,3,0]` **Output:** `[0,1,2,3,4]` **Explanation:** `nums`
`index target`
1 0 [1] 2 1 [1,2] 3 2 [1,2,3] 4 3 [1,2,3,4] 0 0 [0,1,2,3,4]

Example 3:

Input: `nums = [1], index = [0]` **Output:** `[1]`

****Constraints:****

* `1` <= nums.length, index.length <= 100` * `nums.length == index.length` * `0` <= nums[i] <= 100` * `0` <= index[i] <= i`

Code Snippets

C++:

```
class Solution {
public:
    vector<int> createTargetArray(vector<int>& nums, vector<int>& index) {

    }
};
```

Java:

```
class Solution {
    public int[] createTargetArray(int[] nums, int[] index) {

    }
}
```

Python3:

```
class Solution:
    def createTargetArray(self, nums: List[int], index: List[int]) -> List[int]:
```