

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]:
```