Problem 2295: Replace Elements in an Array

Problem Information

Difficulty: Medium
Acceptance Rate: 59.37%
Paid Only: No
Tags: Array, Hash Table, Simulation

Problem Description

You are given a **0-indexed** array `nums` that consists of `n` **distinct** positive integers. Apply `m` operations to this array, where in the `ith` operation you replace the number `operations[i][0]` with `operations[i][1]`.

It is guaranteed that in the `ith` operation:

* `operations[i][0]` **exists** in `nums`. * `operations[i][1]` does **not** exist in `nums`.

Return _the array obtained after applying all the operations_.

Example 1:

Input: nums = [1,2,4,6], operations = [[1,3],[4,7],[6,1]] **Output:** [3,2,7,1] **Explanation:** We perform the following operations on nums: - Replace the number 1 with 3. nums becomes [_**3**_ ,2,4,6]. - Replace the number 4 with 7. nums becomes [3,2,_**7**_ ,6]. - Replace the number 6 with 1. nums becomes [3,2,7,_**1**_]. We return the final array [3,2,7,1].

Example 2:

Input: nums = [1,2], operations = [[1,3],[2,1],[3,2]] **Output:** [2,1] **Explanation:** We perform the following operations to nums: - Replace the number 1 with 3. nums becomes [_**3**_ ,2]. - Replace the number 2 with 1. nums becomes [3,_**1**_]. - Replace the number 3 with 2. nums becomes [_**2**_ ,1]. We return the array [2,1].

Constraints:

* `n == nums.length` * `m == operations.length` * `1 <= n, m <= 105` * All the values of `nums` are **distinct**. * `operations[i].length == 2` * `1 <= nums[i], operations[i][0], operations[i][1] <= 106` * `operations[i][0]` will exist in `nums` when applying the `ith` operation. * `operations[i][1]` will not exist in `nums` when applying the `ith` operation.

Code Snippets

C++:

```cpp
class Solution {
public:
vector<int> arrayChange(vector<int>& nums, vector<vector<int>>& operations) {


}
};
```

Java:

```java
class Solution {
public int[] arrayChange(int[] nums, int[][] operations) {


}
}
```

Python3:

```python
class Solution:
def arrayChange(self, nums: List[int], operations: List[List[int]]) ->
List[int]:
```