Problem 1470: Shuffle the Array

Problem Information

Difficulty: Easy
Acceptance Rate: 88.97%
Paid Only: No
Tags: Array

Problem Description

Given the array `nums` consisting of `2n` elements in the form `[x1,x2,...,xn,y1,y2,...,yn]`.

Return the array in the form `[x1,y1,x2,y2,...,xn,yn]`.

Example 1:

Input: nums = [2,5,1,3,4,7], n = 3 **Output:** [2,3,5,4,1,7] **Explanation:** Since x1=2, x2=5, x3=1, y1=3, y2=4, y3=7 then the answer is [2,3,5,4,1,7].

Example 2:

Input: nums = [1,2,3,4,4,3,2,1], n = 4 **Output:** [1,4,2,3,3,2,4,1]

Example 3:

Input: nums = [1,1,2,2], n = 2 **Output:** [1,2,1,2]

Constraints:

* `1 <= n <= 500` * `nums.length == 2n` * `1 <= nums[i] <= 10^3`

Code Snippets

C++:

```
class Solution {
public:
vector<int> shuffle(vector<int>& nums, int n) {


}
};
```

Java:

```
class Solution {
public int[] shuffle(int[] nums, int n) {


}
}
```

Python3:

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