■ Cyclic Sort Mastery Sheet

■ No	■ Problem Name	■ LeetCode #	■■ Concept	■ Key Idea
1	Missing Number	#268	Numbers in range 0..n, one missing	Find the missing index after sorting or sum che
2	Find All Numbers Disappeared in an Array	#448	Range [1..n], some missing	Cyclic sort, collect indices where nums[i] != i+
3	Find the Duplicate Number	#287	Range [1..n], one duplicate	Detect duplicate where correct index already occu
4	Set Mismatch	#645	One duplicate + one missing	Cyclic sort → misplaced element pair gives bo
5	First Missing Positive	#41	Range [1..n] but negatives, zeros present	Skip invalid numbers, cyclic sort positives
6	Corrupt Pair / Error Numbers	(Same as #645, reattempt)	Duplicate and missing number	Reinforces concept
7	Find All Duplicates in an Array	#442	Range [1..n], some repeated	Cyclic sort → find all duplicate indices
8	Find the Missing and Repeating Number (Variation)	(Variation of #645)	Both missing + repeating	Classic interview combo
9	Find Missing Numbers (Multiple)	(Variation of #448)	Multiple missing	Same logic extended
10	Smallest Missing Positive (Revisit)	#41 again	Hard version of missing number	Core mastery test