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	COMPANY	QUESTION NAME	APPROACH	GFG	LEETCODE	NOTES
1	Infosys, Oracle Wipro, Morgan Stanley	Largest Element in Array TC: O(n) SC: O(1)		GFG		If n is not initialized, u r using the size of the vector &arr, you must explicitly initialize int n = arr.size();
2	SAP Labs,Rockstand	Second Largest elem in array without sorting TC: O(n) SC: O(1)		<u>GFG</u>		Visible array→ arr[0]. Invisible data→ INT_MIN Can't trust the data→ INT_MAX INT_MIN → start with the worst max INT_MAX → start with the worst min
3		Check if array is sorted TC: O(n) SC: O(1)		GFG		
4	Zoho, Morgan Stanley, Microsoft, Samsung, Google, Wipro, Xome	Remove Duplicates Sorted Array TC: O(n) SC: O(1)	2 pointers	GFG	LEETCODE	
5		Rotate Array by One(clockwise direction/right) TC: O(n) SC: O(1)		GFG		Whenever they say rotate left/right, look at the key elem that moves, either first/last & shift accordingly. Right Rotation by 1→last element (arr[n-1]) Left Rotation by 1→first element (arr[θ]) Dont focus on shifting all elements.
6	Amazon, Microsoft, MAQ Software	Rotate the array to the left (counter-clockwise) rotate the array to the right		GFG	LEETCODE	Left = F-R-A → First–Rest–All Right = A-F-R → All–First–Rest
7	Paytm,Amazon Microsoft, Samsung, SAP Labs, Linkedin, Bloomberg	Move All Zeroes to End TC: O(n) SC: O(1)	2 pointers	GFG	LEETCODE	
8	Amazon	Union of 2 Sorted Arrays TC: O(n1 +n2) SC:O(n1+n2) WC	2 pointers	GFG		
9		Intersection of two sorted arrays TC: O(n1 +n2) SC:O(n1+n2) WC Intersection of two unsorted arrays (LC)	2 pointers	<u>GFG</u>	LEETCODE	Intersection of two unsorted arrays (LC) We used unordered map
10	Flipkart, Morgan Stanley, Accolite, D-E-Shaw, OlaCabs, Pay, Visa, Intuit, Adobe, CISCO, Qualcomm TCS	Missing number	XOR	GFG	LEETCODE	Range Type: 1 to n (like GFG)  → XOR loop range: from 1 to n-1  → ✓ Yes, you need to add xor1 ^= n outside the loop to include the last number.  Range Type: 0 to n (like Leetcode)  → XOR loop range: from 0 to n  → ✓ No extra step needed — the loop already covers the full range.

11	Amazon, Google ,META	Max Consecutive 1's			LEETCODE	
12	Amazon	Single Number		<u>GFG</u>	LEETCODE	
13	Zoho, Flipkart, Morgan Stanley, Accolite, Amazon, Microsoft, FactSet, Hike, Adobe, Google, Wipro, SAP Labs, CarWale	Two Sum - Pair with Given Sum	2 pointers, HASHMAP	GFG	LEETCODE	Return Indices → Use HashMap (LeetCode style)  Return True/False → Use HashMap or Two Pointers if sorted (GFG style
				<u>GFG</u>	LEETCODE	
				<u>GFG</u>	LEETCODE	
				<u>GFG</u>	LEETCODE	
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