1. How do you find the missing number in a given integer array of 1 to 100? ([solution](http://javarevisited.blogspot.com/2014/11/how-to-find-missing-number-on-integer-array-java.html))
2. How do you find the duplicate number on a given integer array? ([solution](http://javarevisited.blogspot.com/2014/01/how-to-remove-duplicates-from-array-java-without-collection-API.html))
3. How do you find the largest and smallest number in an unsorted integer array? ([solution](http://java67.blogspot.com/2014/02/how-to-find-largest-and-smallest-number-array-in-java.html))
4. How do you find all pairs of an integer array whose sum is equal to a given number? ([solution](http://javarevisited.blogspot.com/2014/08/how-to-find-all-pairs-in-array-of-integers-whose-sum-equal-given-number-java.html))
5. How do you find duplicate numbers in an array if it contains multiple duplicates? ([solution](http://javarevisited.blogspot.com/2014/03/3-ways-to-find-first-non-repeated-character-String-programming-problem.html))
6. How are duplicates removed from a given array in Java? ([solution](http://javarevisited.blogspot.com/2014/01/how-to-remove-duplicates-from-array-java-without-collection-API.html))
7. How is an integer array sorted in place using the quicksort algorithm? ([solution](http://javarevisited.blogspot.com/2014/08/quicksort-sorting-algorithm-in-java-in-place-example.html))
8. How do you remove duplicates from an array in place? ([solution](http://javarevisited.blogspot.com/2014/01/how-to-remove-duplicates-from-array-java-without-collection-API.html))
9. How do you reverse an array in place in Java? ([solution](http://javarevisited.blogspot.com/2013/03/how-to-reverse-array-in-java-int-String-array-example.html))
10. How are duplicates removed from an array without using any library? ([solution](http://javarevisited.blogspot.sg/2014/01/how-to-remove-duplicates-from-array-java-without-collection-API.html))
11. How do you find the middle element of a singly linked list in one pass? ([solution](http://javarevisited.blogspot.sg/2012/12/how-to-find-middle-element-of-linked-list-one-pass.html))
12. How do you check if a given linked list contains a cycle? How do you find the starting node of the cycle? ([solution](http://javarevisited.blogspot.sg/2013/05/find-if-linked-list-contains-loops-cycle-cyclic-circular-check.html))
13. How do you reverse a linked list? ([solution](http://www.java67.com/2016/07/how-to-reverse-singly-linked-list-in-java-example.html))
14. How do you reverse a singly linked list without recursion? ([solution](http://javarevisited.blogspot.sg/2017/03/how-to-reverse-linked-list-in-java-using-iteration-and-recursion.html))
15. How are duplicate nodes removed in an unsorted linked list? ([solution](https://www.geeksforgeeks.org/remove-duplicates-from-an-unsorted-linked-list/))
16. How do you find the length of a singly linked list? ([solution](http://javarevisited.blogspot.sg/2016/05/how-do-you-find-length-of-singly-linked.html))
17. How do you find the third node from the end in a singly linked list? ([solution](http://javarevisited.blogspot.sg/2016/07/how-to-find-3rd-element-from-end-in-linked-list-java.html))
18. How do you find the sum of two linked lists using Stack? ([solution](https://www.geeksforgeeks.org/sum-of-two-linked-lists/))
19. How do you print duplicate characters from a string? ([solution](http://java67.blogspot.sg/2014/03/how-to-find-duplicate-characters-in-String-Java-program.html))
20. How do you check if two strings are anagrams of each other? ([solution](http://javarevisited.blogspot.sg/2013/03/Anagram-how-to-check-if-two-string-are-anagrams-example-tutorial.html))
21. How do you print the first non-repeated character from a string? ([solution](http://javarevisited.blogspot.sg/2014/03/3-ways-to-find-first-non-repeated-character-String-programming-problem.html))
22. How can a given string be reversed using recursion? ([solution](http://javarevisited.blogspot.sg/2012/01/how-to-reverse-string-in-java-using.html))
23. How do you check if a string contains only digits? ([solution](http://javarevisited.blogspot.sg/2012/10/regular-expression-example-in-java-to-check-String-number.html))
24. How are duplicate characters found in a string? ([solution](http://java67.blogspot.sg/2014/03/how-to-find-duplicate-characters-in-String-Java-program.html))
25. How do you count a number of vowels and consonants in a given string? ([solution](http://java67.blogspot.sg/2013/11/how-to-count-vowels-and-consonants-in-Java-String-word.html))
26. How do you count the occurrence of a given character in a string? ([solution](http://javarevisited.blogspot.sg/2012/12/how-to-count-occurrence-of-character-in-String.html))
27. How do you find all permutations of a string? ([solution](http://javarevisited.blogspot.com/2015/08/how-to-find-all-permutations-of-string-java-example.html))
28. How do you reverse words in a given sentence without using any library method? ([solution](http://java67.blogspot.com/2015/06/how-to-reverse-words-in-string-java.html))
29. How do you check if two strings are a rotation of each other? ([solution](http://www.java67.com/2017/07/string-rotation-in-java-write-program.html))
30. How do you check if a given string is a palindrome? ([solution](http://java67.blogspot.com/2015/06/how-to-check-is-string-is-palindrome-in.html))
31. How is a binary search tree implemented? ([solution](http://javarevisited.blogspot.sg/2015/10/how-to-implement-binary-search-tree-in-java-example.html#axzz4wnEtnNB3))
32. How do you perform preorder traversal in a given binary tree? ([solution](http://javarevisited.blogspot.sg/2016/07/binary-tree-preorder-traversal-in-java-using-recursion-iteration-example.html#axzz5ArdIFI7y))
33. How do you traverse a given binary tree in preorder without recursion? ([solution](http://www.java67.com/2016/07/binary-tree-preorder-traversal-in-java-without-recursion.html))
34. How do you perform an inorder traversal in a given binary tree? ([solution](http://www.java67.com/2016/08/binary-tree-inorder-traversal-in-java.html))
35. How do you print all nodes of a given binary tree using inorder traversal without recursion? ([solution](http://www.java67.com/2016/08/binary-tree-inorder-traversal-in-java.html))
36. How do you implement a postorder traversal algorithm? ([solution](http://www.java67.com/2016/10/binary-tree-post-order-traversal-in.html))
37. How do you traverse a binary tree in postorder traversal without recursion? ([solution](http://www.java67.com/2017/05/binary-tree-post-order-traversal-in-java-without-recursion.html))
38. How are all leaves of a binary search tree printed? ([solution](http://www.java67.com/2016/09/how-to-print-all-leaf-nodes-of-binary-tree-in-java.html))
39. How do you count a number of leaf nodes in a given binary tree? ([solution](http://javarevisited.blogspot.sg/2016/12/how-to-count-number-of-leaf-nodes-in-java-recursive-iterative-algorithm.html))
40. How do you perform a binary search in a given array? ([solution](http://javarevisited.blogspot.sg/2015/10/how-to-implement-binary-search-tree-in-java-example.html#axzz4wnEtnNB3))
41. How is a bubble sort algorithm implemented? ([solution](http://javarevisited.blogspot.sg/2014/08/bubble-sort-algorithm-in-java-with.html#axzz5ArdIFI7y))
42. How is an iterative quicksort algorithm implemented? ([solution](http://javarevisited.blogspot.sg/2016/09/iterative-quicksort-example-in-java-without-recursion.html#axzz5ArdIFI7y))
43. How do you implement an insertion sort algorithm? ([solution](http://www.java67.com/2014/09/insertion-sort-in-java-with-example.html))
44. How is a merge sort algorithm implemented? ([solution](http://www.java67.com/2018/03/mergesort-in-java-algorithm-example-and.html))
45. How do you implement a bucket sort algorithm? ([solution](http://javarevisited.blogspot.sg/2017/01/bucket-sort-in-java-with-example.html))
46. How do you implement a counting sort algorithm? ([solution](http://www.java67.com/2017/06/counting-sort-in-java-example.html))
47. How is a radix sort algorithm implemented? ([solution](http://www.java67.com/2018/03/how-to-implement-radix-sort-in-java.html))
48. How do you swap two numbers without using the third variable? ([solution](http://www.java67.com/2015/08/how-to-swap-two-integers-without-using.html))
49. How do you check if two rectangles overlap with each other? ([solution](http://javarevisited.blogspot.sg/2016/10/how-to-check-if-two-rectangle-overlap-in-java-algorithm.html))
50. How do you design a vending machine? ([solution](http://javarevisited.blogspot.sg/2016/06/design-vending-machine-in-java.html))