Intermediate Java String Questions and Test Cases

# 1. Reverse a String

Input: 'hello'  
Expected Output: 'olleh'

# 2. Check if a String is a Palindrome

Input: 'radar'  
Expected Output: true  
Input: 'java'  
Expected Output: false

# 3. Find the First Non-Repeated Character in a String

Input: 'swiss'  
Expected Output: 'w'

# 4. Count the Number of Vowels in a String

Input: 'education'  
Expected Output: 5

# 5. Check if Two Strings are Anagrams

Input: 'listen', 'silent'  
Expected Output: true

# 6. Find the Longest Palindromic Substring in a String

Input: 'babad'  
Expected Output: 'bab' or 'aba'

# 7. Count the Number of Words in a String

Input: 'Hello World'  
Expected Output: 2

# 8. Check if a String Contains Only Digits

Input: '12345'  
Expected Output: true  
Input: '123a5'  
Expected Output: false

# 9. Convert a String to Title Case

Input: 'java is fun'  
Expected Output: 'Java Is Fun'

# 10. Find All Permutations of a String

Input: 'abc'  
Expected Output: ['abc', 'acb', 'bac', 'bca', 'cab', 'cba']

# 11. Remove Duplicates from a String

Input: 'programming'  
Expected Output: 'progamin'

# 12. Find the Longest Common Prefix of Two Strings

Input: 'flower', 'flow'  
Expected Output: 'flow'

# 13. Replace All Spaces in a String with '%20'

Input: 'Mr John Smith'  
Expected Output: 'Mr%20John%20Smith'

# 14. Convert a String to an Integer

Input: '1234'  
Expected Output: 1234

# 15. Check if a String is a Rotation of Another String

Input: 'waterbottle', 'erbottlewat'  
Expected Output: true