1. **Write a function that takes a list of numbers as input and returns the sum of all the even numbers in the list.**
2. **Write a function that takes a string as input and returns True if the string is a palindrome (i.e., reads the same backwards as forwards), and False otherwise.**
3. **Write a function that takes a list of integers as input and returns the maximum difference between any two numbers in the list.**
4. **Write a function that takes a list of strings as input and returns a new list containing only the strings that start with the letter 'a'.**
5. **Write a function that takes a list of integers as input and returns the second largest number in the list.**
6. **Write a function that takes a list of strings as input and returns the longest string in the list.**
7. **Write a function that takes a string as input and returns a new string where each letter is replaced by its corresponding number in the alphabet (e.g., 'a' becomes '1', 'b' becomes '2', etc.).**
8. **Write a function that takes a list of numbers as input and returns True if the list is sorted in non-decreasing order (i.e., each number is greater than or equal to the previous number), and False otherwise.**
9. **Write a function that takes a list of integers as input and returns the product of all the numbers in the list.**
10. **Write a function that takes a string as input and returns a new string with all the vowels removed.**