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Problem 4: Check for Anagrams
def are_anagrams(str1, str2):
  str1 = str1.lower().replace(" ", "")
  str2 = str2.lower().replace(" ", "")
  if len(str1) != len(str2):
    return False
  char_count1 = {}
  char_count2 = {}
  for char in str1:
    char_count1[char] = char_count1.get(char, 0) + 1
  for char in str2:
    char_count2[char] = char_count2.get(char, 0) + 1
  if char_count1 == char_count2:
    return True
  else:
    return False
string1 = "listen"
string2 = "silent"
if are_anagrams(string1, string2):
```

print("The strings are anagrams.")

## else:

print("The strings are not anagrams.")

