

WK01\Assignment01_linear_search_Rev2.py

```
1 def twoNumSum(nums, target):
2     hashTable = {}
3     for i in range(len(nums)):
4         if target - nums[i] in hashTable:
5             return [hashTable[target - nums[i]], i]
6         hashTable[nums[i]] = i
7     return [-1, -1]
8
9 a = [2,7,11,15]
10 target = 9
11
12 [firstIndex, secondIndex] = twoNumSum(a,target)
13
14 if firstIndex != -1:
15     print(f'\nThe value at index {firstIndex} is {a[firstIndex]}. The value at index
16     {secondIndex} is {a[secondIndex]}.')
17     print(f'Added together, they are {a[firstIndex]+a[secondIndex]}, which should be equal to
18     the target, {target}.\n')
19 else:
20     print(f'\nNo two numbers in this array add up to the target, {target}.\n')
```