The Problem(P14 E8)

Given a list L of integers and a specific targeted value k, the problem is to find the indices i and j of two numbers in L such that L[i] + L[j] = k.

Develop a python program to find the indices i and j of two integers in a list L of integers, whose addition is equal to a given target value k. The input will be a file containing the list L of integers and targeted value k. The output should be the two indices i and j such that L[i] + L[j] = k. The output should be displayed on screen and written to a file "Output.txt".

Note: Assume that each input pair L and k would have exactly one solution.

Special requirement: You must <u>define at least 2 functions</u> and <u>use them</u> in your code.

Format:

<u>Input</u>: Name of input file

(The input file will first contain the list L of integers enclosed in square brackets in which each integer is separated by a comma, and then the target integer value k. the list L and the target value k are on the same line separated by a space.)

Output: Display on screen and write to the output file "Output.txt" the two indices i and j

on the list L of integers such that L[i] + L[j] = k. The two indices should be

separated by space.

Sample:

<u>Case 1</u> <u>Case 2</u>

Output: Output.txt and on screen Output: Output.txt and on screen

Content: 0 1 Content: 2 4