class Solution:

    def twoSum(self, nums: List[int], target: int) -> List[int]:

        numMap = {}

        n = len(nums)

        # Build the hash table

        for i in range(n):

            numMap[nums[i]] = i

        # Find the complement

        for i in range(n):

            complement = target - nums[i]

            if complement in numMap and numMap[complement] != i:

                return [i, numMap[complement]]

        return []  # No solution found