Problem 1:

You are given an array of integer numbers ***nums,*** where ***0<= nums[i] <= 10^5***. Sort the numbers in ascending order. You can only use arrays, loops and input-output functions. Try not to use nested loops.

Input:
nums = [8, 7, 2, 5, 3, 1, 8, 5]

Output:
nums = [1, 2, 3, 5, 5, 7, 8, 8]

Problem 2:

You are given an array of integer numbers ***nums*** and an integer number ***target***.
Tasks:

1. Find any pair ***(i,j)*** such that ***nums[i]*** + ***nums[j]*** = ***target*** and ***(i ≠ j)*** or say does not exist.
2. Find how many pairs of index ***(i, j)*** exist so that ***nums[i]*** + ***nums[j]*** = ***target*** and ***(i ≠ j).***
    - ◇ Case 1: **0 <= nums[i] <= 10^5**
    - ◇ Case 2: **-10^5 <= nums[i] <= 10^5**

Note: You can only use arrays, loops and input-output functions. Try not to use nested loops.

Input:
nums = [8, 7, 2, 5, 3, 1]
target = 10

Output:
Task 1: (0,2) or (1, 4) [anyone is okay]
Task 2: 2 pairs.