UNITED INTERNATIONAL UNIVERSITY

Department of Computer Science and Engineering (CSE)

CT-01

35 mins

Set A

Course : DSA I Lab | **Course Code: CSE 2216**

Trimester & Year: Spring 2025 | **Section: D**

Name : | **Total Marks: 20**

ID:

SN	Questions	Marks
1		10

Your company has introduced a special type of lottery. In this lottery, participants are randomly paired. After pairing, it is checked whether the names of the paired participants are **anagrams** of each other.

A name is considered an **anagram** of another if it can be formed by rearranging all the letters of the other name without adding or removing any characters.

Since a large number of people are participating in the lottery, you need to automate the verification process. Your task is to write a program that, given two names, determines whether one can be rearranged to form the other.

Input:

- The first line contains a string **A** — the name of the first participant.
- The second line contains a string **B** — the name of the second participant.
- Both names consist of only uppercase and lowercase English letters. The comparison is **case-sensitive**, meaning "John" and "john" are considered different.

Output:

- Print **"YES"** (without quotes) if the names are anagrams of each other. Otherwise, print **"NO"**.

Sample Input	**Sample Output**
listen silent	YES
Explanation: "listen" can be rearranged to form "silent".	
rahat nasif	NO

Marking Criteria

Logic	**4**
Implementation	**4**
Overall correctness	**2**

SN	Questions	Marks
2	You are given two integer arrays **nums1** and **nums2**. Your task is to find their **intersection**, which consists of elements that appear in **both** arrays. Each element in the result must be **unique**, and you may return the result in **any order**. ## Input: - The first line contains an integer **n** — the size of the array **nums1**. - The second line contains **n space-separated integers nums1[i]**. - The third line contains an integer **m** — the size of the array **nums2**. - The fourth line contains **m space-separated integers nums2[i]** ### Output: - Print a space-separated list of unique integers that appear in both arrays. The order of output elements does not matter. **Sample Input** / **Sample Output** 4 1 2 2 1 2 2 2 3 4 9 5 5 9 4 9 8 4 4 9 **Marking Criteria** **Logic** — **4** **Implementation** — **4** **Overall correctness** — **2**	**10**