Question 02

You are given two sorted arrays arr1 and arr2 of lengths m and n respectively, and an integer x. Your task is to find the pair of elements (arr1[i], arr2[j]) such that the absolute difference between their sum and x is minimum.
Write a function or program to solve this problem efficiently.

Input:
The input consists of four parts:

The first line contains two integers m and n (1 ≤ m, n ≤ 10^5), representing the lengths of arrays arr1 and arr2 respectively.
The second line contains m space-separated integers, representing the elements of the sorted array arr1.
The third line contains n space-separated integers, representing the elements of the sorted array arr2.
The fourth line contains an integer x (-10^9 ≤ x ≤ 10^9), denoting the target sum.

Output:
Output two integers i and j, representing the indices of the pair (arr1[i], arr2[j]) such that the absolute difference between their sum and x is minimum. If there are multiple pairs with the same minimum absolute difference, output the pair with the smallest value of i and j.

Example:

Sample Input: 3 4 6 7 9 4 5 6 8 16 **Output:** The closest pair is [7, 8]	**Sample Input:** 4 4 1 4 5 7 10 20 30 40 50 **Output:** The closest pair is [7, 40]

Explanation:
In the given example, the arrays arr1 and arr2 are [6, 7, 9] and [4 , 5 , 6 , 8] respectively. The target sum x is 16. The pair (arr1[1], arr2[3]) = (7, 8) has the sum 7 + 8 = 15, which is closest to x = 16 among all pairs.

Note:
Both arrays arr1 and arr2 are sorted in ascending order.
The absolute difference between the sum of elements of any pair (arr1[i], arr2[j]) and x should be minimized.