

Question # 12

Description:

Smallest Difference

Difficulty: Medium Category: Arrays

Write a function that takes in two non-empty arrays of integers, finds the pair of numbers (one from each array) whose absolute difference is closest to zero, and returns an array containing these two numbers, with the number from the first array in the first position. Note that the absolute difference of two integers is the distance between them on the real number line. For example, the absolute difference of -5 and 5 is 10, and the absolute difference of -5 and -4 is 1. You can assume that **there will only be one pair of numbers** with the smallest difference.

Sample Input

arrayOne = [-1, 5, 10, 20, 28, 3]

arrayTwo = [26, 134, 135, 15, 17]

Sample Output

[28, 26]

Directions :

- Solve the problem on your own.
- No group effort.
- If possible, provide more than one solution/strategy.
- Different approaches will be great for discussion.
- If you are stuck no problem. Student will experience the same.
- **Do not google it.** Try to build your own solution. It might be ugly no worries.
- We will discuss it on 15th November 2021 10:30 EST.

Good luck!

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