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Minimize the absolute difference

Asked in: Microsoft (/search/?q=Microsoft)

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Given three sorted arrays A, B and C of not necessarily same sizes.

Calculate the **minimum absolute difference** between the maximum and minimum number from the triplet a, b, c such that a, b, c belongs arrays A, B, C respectively.

i.e. minimize | max(a,b,c) - min(a,b,c) |.

Example:

Input:

```
A: [1, 4, 5, 8, 10]
B: [6, 9, 15]
C: [2, 3, 6, 6]
```

Output:

1

Explanation: We get the minimum difference for a=5, b=6, c=6 as $|\max(a,b,c) - \min(a,b,c)| = |6-5| = 1$.

See Expected Output

Seen this question in a real interview before Yes

es No

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