```
import sys
import numpy as np

#A = np.random.randint(1, 10000000, 1000)
#B = np.random.randint(1,10000000,1000)

import sys

# function to calculate
# Small result between
# two arrays

def findSmallestDifference(A, B, m, n):


    # Sort both arrays

    # using sort function

    A.sort()

    B.sort()


    a = 0

    b = 0


    # Initialize result as max value

    result = sys.maxsize


    # Scan Both Arrays upto

    # sizeof of the Arrays

    while (a < m and b < n):



        if (abs(A[a] - B[b]) < result):

            result = abs(A[a] - B[b])
            first_element = A[a]
            second_element = B[b]

        # Move Smaller Value

        if (A[a] < B[b]):

            a += 1


        else:

            b += 1

    # return final sma result
    print(f"the closest pair is {first_element} and {second_element}")
# Driver Code
```

```
# Input given array A

A = np.random.randint(1,10000000, 1000)

# Input given array B

B = np.random.randint(1,10000000,1000)

# Calculate size of Both arrays

m = len(A)

n = len(B)

# Call function to
# print smallest result

print(findSmallestDifference(A, B, m, n))
```