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- EASY
- Max Score: 30 Points

Sum Of Two Arrays

You are given two numbers 'A' and 'B' in the form of two arrays (A[] and B[]) of lengths 'N' and 'M' respectively, where each array element represents a digit. You need to find the sum of these two numbers and return this sum in the form of an array.

Note:

1. **The length of each array is greater than zero.**
2. **The first index of each array is the most significant digit of the number. For example, if the array A[] = {4, 5, 1}, then the integer represented by this array is 451 and array B[] = {3, 4, 5} so the sum will be 451 + 345 = 796. So you need to return {7, 9, 6}.**
3. **Both numbers do not have any leading zeros in them. And subsequently, the sum should not contain any leading zeros.**

Your task is to complete the function `findArraySum` which receives `N`, `M` and both the arrays as parameters and returns the required array.

Input Format:

The first line of input contains two space-separated integers 'N' and 'M', denoting the size of the two arrays.

The second line of input contains 'N' space-separated integers denoting the elements of the first array.

The third line of input contains 'M' space-separated integers denoting the elements of the second array.

Output Format:

The only line of output of each test case contains space-separated digits which correspond to the sum of the two numbers 'A' and 'B'.

Example 1:

Input:

```
4 1
1 2 3 4
6
```

Output

```
1 2 4 0
```

Explanation: The integer represented by the first array is 1234 and the second array is 6, so the sum is 1234 + 6 = 1240.

Example 2:

Input:

```
3 2
1 2 3
9 9
```

Output

```
2 2 2
```

Explanation: The integer represented by the first array is 123 and the second array is 99, so the sum is 123 + 99 = 222.

Constraints:

1 <= N, M <= 10^4

0 <= A[i], B[i] <= 9

Topic Tags

- 2-Pointers

My code

```
// in java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
        public static void main (String[] args) throws java.lang.Exception
        {
                //your code here
      //use stack
      Scanner s=new Scanner(System.in);
      int n=s.nextInt();
            int m=s.nextInt();
      int arr[]=new int[n];
       int arrb[]=new int[m];
   int  max=n>m?n:m;
      int arrc[]=new int[max+1];
      for(int i=0;i<n;i++)
        arr[i]=s.nextInt();
          for(int i=0;i<m;i++)
        arrb[i]=s.nextInt();
      m=m-1;
      n=n-1;
      int c=0;//carry
```

```
      int f=0;//flag
      int t=-1;//for arr c ind
      while(f==0)
        {
          int sum=0;
          if(n<0 && m<0 &&c==0) break;;
            if(n>-1) sum=sum+arr[n--];
            if(m>-1) sum=sum+arrb[m--];
                 sum=sum+c;
        arrc[++t]=sum%10;
          c=sum/10;
        }
      for(int i=t;i>=0;i--)
  System.out.print(arrc[i]+" ");



      }
}
```