Anagram 🔖   🐞

Easy   Accuracy: **50.99%**   Submissions: **97453**   Points: **2**

📋   **This problem is part of GFG SDE Sheet. Click here to view more.** ↗

Given two strings **a** and **b** consisting of lowercase characters. The task is to check whether two given strings are an anagram of each other or not. An anagram of a string is another string that contains the same characters, only the order of characters can be different. For example, act and tac are an anagram of each other.

Example 1:

```
Input: a = geeksforgeeks, b = forgeeksgeeks
Output: YES
Explanation: Both the string have samecharacters with
        same frequency. So, both are anagrams.
```

Example 2:

```
Input: a = allergy, b = allergic
Output: NO
Explanation:Characters in both the strings are
        not same, so they are not anagrams.
```

Your Task:

You don't need to read input or print anything. Your task is to complete the function **isAnagram()** which takes the string **a** and string **b** as input parameter and check if the two strings are an anagram of each other. The function returns true if the strings are anagram else it returns false.

Note: In python, you have to return True or False.

Expected Time Complexity: $O(|a|+|b|)$.
Expected Auxiliary Space: O(Number of distinct characters).

Note: $|s|$ represents the length of string s.

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Constraints:

$1 \le |a|, |b| \le 10^5$

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Java (1.8) ▾   🕐 Average Time: 20m   ⧉ ⚙ ↻ ⤢
                    Your Time: **13m 16s**

```java
 1   ⬒// } Driver Code Ends
35   class Solution
36   {
37       public static boolean isAnagram(String a,String b)
38       {
39           Map<Character,Integer> map=new HashMap<>();
40
41           if(a.length()!=b.length()) return false;
42
43           for(int i=0;i<a.length();i++){
44               if(!map.containsKey(a.charAt(i)))
45                   map.put(a.charAt(i),1);
46               else
47                   map.put(a.charAt(i),map.get(a.charAt(i))+1);
48           }
49
50           for(int i=0;i<b.length();i++){
51               if(!map.containsKey(b.charAt(i)) || map.get(b.charAt(i)
52                   return false;
53               else
54                   map.put(b.charAt(i),map.get(b.charAt(i))-1);
55           }
56           return true;
57       }
```

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