Write a Program to check if two strings are Anagram or not

Description

Get two strings as input from the user and check whether it is Anagram or not.

Input

sunlight

thgiluns

Output

Anagram

C Program

```
#include<iostream>
#include<string.h>
using namespace std;
int main()
{
   char str1[100],str2[100];
   int f[26]={0}, s[26]={0}, c=0, flag=0;
   cout<<"Enter first string: ";
   cin>>str1;
   cout<<"Enter second string: ";
   scanf("%s",str2);
   while(str1[c] != '\0')
   {
      f[str1[c]-'a']++;
      c++;
   }
   c=0;
```

```
   while(str2[c] != '\0')
   {
      s[str2[c]-'a']++;
      c++;
   }
   for(c=0;c<26;c++)
   {
      if(f[c] != s[c])
         flag=1;
   }
   if(flag == 0)
   {
      printf("Anagram.");
   }
   else
   {
      printf("Not Anagram.");
   }
   return 0;

}
```


C++ Program

```
#include<iostream>
#include<string.h>
using namespace std;
int main()
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   char str1[100],str2[100];
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```
int f[26]={0}, s[26]={0}, c=0, flag=0;
cout<<"Enter first string: ";
cin>>str1;
cout<<"Enter second string: ";
scanf("%s",str2);
while(str1[c] != '\0')
{
   f[str1[c]-'a']++;
   c++;
}
c=0;
while(str2[c] != '\0')
{
   s[str2[c]-'a']++;
   c++;
}
for(c=0;c<26;c++)
{
   if(f[c] != s[c])
      flag=1;
}
if(flag == 0)
{
   printf("Anagram.");
}
else
{
   printf("Not Anagram.");
}
```

```
    return 0;


}
```

Java

```
import java.util.Scanner;
import java.util.Arrays;
public class Main
{
                    static boolean isAnagram(String str1 , String str2) {
    String s1 = str1.replaceAll("[\\s]", "");
    String s2 = str2.replaceAll("[\\s]", "");
    boolean stat=true;


     if(s1.length()!=s2.length())
       stat = false;
     else {
        char[] arr1 = s1.toLowerCase().toCharArray();
        char[] arr2 = s2.toLowerCase().toCharArray();
        Arrays.sort(arr1);
        Arrays.sort(arr2);
        stat = Arrays.equals(arr1, arr2);
      }
      return stat;
}
   public static void main(String[] args) {
     Scanner sc = new Scanner(System.in);
     System.out.print("Enter two string: ");
     String str1 = sc.next();
```

```
    String str2 = sc.next();
    boolean stat = isAnagram(str1,str2);
     if(stat)
       System.out.println("Anagram");
     else
       System.out.println("Not Anagram");
     }

}
```

Python

```
Str1 = input('Enter first string: ')
Str2 = input('Enter second string: ')
if len(Str1) != len(Str2):
   print('Not anagram')
else:
   Str1 = sorted(Str1)
   Str2 = sorted(Str2)
   if Str1 == Str2:
      print('Anagram')
   else:
      print('Not anagram')
```